Potential Flow Forces and Moments from Selected Ship Flow Codes in a Set of Numerical Experiments	W
Appendix K — Minimum and Maximum Plots for Prescribed Heave Motion of Model 5613	d
NGWGGD 50 TD 2000/04	^

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K-22.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)	K-55
K-23.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)	K-56
K-24.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)	K-56
K-25.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-58
K-26.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-58
K-27.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-59
K-28.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-59
K-29.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-60
K-30.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-60
K-31.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-61
K-32.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-61
K-33.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-63
K-34.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-63

K-35.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-64
K-36.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-64
K-37.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-65
K-38.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-65
K-39.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-66
K-40.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-66
K-41.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)	K-68
K-42.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)	K-68
K-43.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)	K-69
K-44.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)	K-69
K-45.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)	K-70
K-46.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)	K-70
K-47.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)	K-71
K-48.	Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_r = 0.3$)	K 71

K–49.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-50.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-51.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-52.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-53.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-54.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-55.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-56.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-57.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-58.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-59.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-60.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-61.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-62.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)

K-63.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-64.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-65.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
11 00.	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \ \omega = 1.1000 \text{ rad/s}, \ F_n = 0.0)$
K-66.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
IX 00.	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000 \text{ rad/s}$, $F_n = 0.0$)
K-67.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
K-07.	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.0)
V 60	, 10 ,
K–68.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.0)$
IZ (0	, 10 ,
K–69.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
17.70	L = 154 m, ω = 1.1000 rad/s, F_n = 0.0)
K–70.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
IZ 71	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K–71.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K–72.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.0)
K–73.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–74.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–75.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–76.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)

K-77.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T_x^{\text{ptot}})$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to	7)
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-90
K-78.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to	")
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-90
K-79.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T_a)^*$	7)
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =	
	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-91
K-80.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T_a)^*$	7)
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to	,
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)	K-91
K-81.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T_x)^2$	
11 01.	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to)
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-93
K-82.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T_x^{\text{ptot}})$	
K-02.	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to)
		K-93
17 02	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	
K–83.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T_x)^*$)
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to	17. 04
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K–94
K–84.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T_x)^*$	')
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to	
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K–94
K-85.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T_a)$	7)
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to	
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-95
K-86.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T_a)$	7)
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to	
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-95
K-87.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T_x^{\text{ptot}})$	7)
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =	,
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-96
K-88.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T_x^{\text{ptot}})$	7)
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to	,
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)	K-96
K-89.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a / T_x^{\text{ptot}})$	
11 0).	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to	,
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)	K-98
K-90.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T_x^{\text{ptot}})$	
11-70.	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to)
	L = 154 m. $\omega = 1.1000$ rad/s. $F_n = 0.3$)	K-98
	$\omega = 1.77$ He $\omega = 1.1000$ factor $I_{\rm m} = 0.01$	ユーフハ

K–91.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-92.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-93.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \ \omega = 1.1000 \text{ rad/s}, \ F_n = 0.3)$
K-94.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$
11 / 1.	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.3)$
V 05	
K–95.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K–96.	Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-97.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-98.	Minimum and Maximum of Variables F_z^{ptot} and $\left(F_z^{\text{ptot}}\right)^* = \left(F_z^{\text{ptot}} - \left\langle F_z^{\text{ptot}} \right\rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K–99.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.2079 \text{ rad/s}, F_n = 0.0)$
K-100.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$
K-100.	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \ \omega = 0.2079 \text{ rad/s}, \ F_n = 0.0)$
K-101.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-102.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-103.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-104.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

K-105.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-106.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-107.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-108.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-109.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-110.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K–111.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-112.	154 m, $\omega=0.3831$ rad/s, $F_n=0.0)$
K-113.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K–114.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-115.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-116.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K–117.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K–118.	L = 154 m, ω = 1.1000 rad/s, F_n = 0.0)

K–119.	Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^* = (F_z^{\rm ptot} - \langle F_z^{\rm ptot} \rangle) / (z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-120.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-121.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-122.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-123.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-124.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-125.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-126.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–127.	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.2079 \text{ rad/s}, F_n = 0.3)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3)$
K-128.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-129.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-130.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–131.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-132.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)

K-133.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-134.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-135.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–136.	154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)
K-137.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
12 1071	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.3)$
K-138.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-139.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-140.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-141.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.3)$
K-142.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-143.	Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
K-144.	154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)
K-145.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\mathrm{ptot}}\right)^* = \left(M_y^{\mathrm{ptot}} - \langle M_y^{\mathrm{ptot}} \rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-146.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.2079 \text{ rad/s}, F_n = 0.0)$
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$
for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.2079 \text{ rad/s}, F_n = 0.0)$
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.2079 \text{ rad/s}, F_n = 0.0)$
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
Minimum and Maximum of Variables M_{y}^{ptot} and $\left(M_{y}^{\text{ptot}}\right)^{*} = \left(M_{y}^{\text{ptot}} - \langle M_{y}^{\text{ptot}} \rangle\right)/(z_{a}/T)$
for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$
for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)

K-161.	Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^* = \left(M_y^{\rm ptot} - \langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-162.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\mathrm{ptot}}\right)^* = \left(M_y^{\mathrm{ptot}} - \langle M_y^{\mathrm{ptot}} \rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-163.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-164.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-165.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-166.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K–167.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K–168.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\mathrm{ptot}}\right)^* = \left(M_y^{\mathrm{ptot}} - \langle M_y^{\mathrm{ptot}} \rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-169.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-170.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-171.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-172.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-173.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\mathrm{ptot}}\right)^* = \left(M_y^{\mathrm{ptot}} - \langle M_y^{\mathrm{ptot}} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-174.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)

K–175.	$g \qquad \langle g \rangle \qquad $
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–176.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-177.	$ \text{Minimum and Maximum of Variables } M_y^{\text{ptot}} \text{ and } \left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle \right) / (z_a/T) $
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-178.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\mathrm{ptot}}\right)^* = \left(M_y^{\mathrm{ptot}} - \langle M_y^{\mathrm{ptot}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–179.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \omega = 0.3831 \text{ rad/s}, F_n = 0.3)$
K-180.	$ \text{Minimum and Maximum of Variables } M_y^{\text{ptot}} \text{ and } \left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle \right) / (z_a/T) $
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–181.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-182.	Minimum and Maximum of Variables $M_y^{ ext{ptot}}$ and $\left(M_y^{ ext{ptot}}\right)^* = \left(M_y^{ ext{ptot}} - \langle M_y^{ ext{ptot}} angle \right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
TZ 102	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–183.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–184.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-185.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$
IX 105.	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
V 106	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$
K–186.	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-187.	Minimum and Maximum of Variables $M_y^{ ext{ptot}}$ and $\left(M_y^{ ext{ptot}}\right)^* = \left(M_y^{ ext{ptot}} - \langle M_y^{ ext{ptot}} angle \right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-188.	Minimum and Maximum of Variables $M_y^{ ext{ptot}}$ and $\left(M_y^{ ext{ptot}}\right)^* = \left(M_y^{ ext{ptot}} - \langle M_y^{ ext{ptot}} angle \right) / (z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)

K-189.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\text{ptot}}\right)^* = \left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-190.	Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\mathrm{ptot}}\right)^* = \left(M_y^{\mathrm{ptot}} - \langle M_y^{\mathrm{ptot}} \rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
K–191.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-192.	154 m, $\omega=1.1000$ rad/s, $F_n=0.3)$
K-193.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-194.	$ \begin{array}{l} {\rm L=154~m, \omega=0.2079~rad/s, } F_n=0.0) & . & . & . & . & . & . & .} \\ {\rm Minimum~and~Maximum~of~Variables} \ F_x^{\rm hst} \ {\rm and} \ \left(F_x^{\rm hst}\right)^* = \left(F_x^{\rm hst} - \langle F_x^{\rm hst}\rangle\right)/(z_a/T) \\ \end{array} $
V 105	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.2079 \text{ rad/s}, F_n = 0.0)$
K–195.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K–196.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
K–197.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K–198.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.2079 \text{ rad/s}, F_n = 0.0)$
K–199.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-200.	Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^* = \left(F_x^{\rm hst} - \langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-201.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-202.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)

K-203.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-204.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-205.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-206.	Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^* = (F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-207.	Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^* = (F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-208.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-209.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-210.	Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^* = (F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-211.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-212.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-213.	Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^* = (F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-214.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-215.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-216.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)

K-217.	Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^* = \left(F_x^{\rm hst} - \langle F_x^{\rm hst} \rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
V 210	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–218.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-219.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
K 220	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-220.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-221.	Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^* = (F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-222.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.2079 \text{ rad/s}, F_n = 0.3) \dots K-180$
K-223.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K 223.	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-224.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-225.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.3831 \text{ rad/s}, F_n = 0.3)$
K-226.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
K 220.	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-227.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–228.	Minimum and Maximum of Variables F_x^{hst} and $(F_x^{\text{hst}})^* = (F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle) / (z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.3831 \text{ rad/s}, F_n = 0.3) \dots K-184$
K-229.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
11 22).	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-230.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \omega = 0.3831 \text{ rad/s}, F_n = 0.3)$ K-185

K-231.	Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^* = \left(F_x^{\rm hst} - \langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-232.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-233.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-234.	L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.3)$
K-235.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-236.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-237.	Minimum and Maximum of Variables F_x^{hst} and $\left(F_x^{\text{hst}}\right)^* = \left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-238.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-239.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-240.	154 m, $\omega=1.1000$ rad/s, $F_n=0.3)$
K-241.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-242.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-243.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-244.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

K-245.	Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^* = (F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (z_a/T)$
11 213.	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-246.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right) / (z_a/T)$
11-2-10.	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-247.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
11-2-77.	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.2079 \text{ rad/s}$, $F_n = 0.0$)
K-248.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
11-2-10.	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-249.	Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^* = (F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (z_a/T)$
K-247.	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-250.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
K 250.	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-251.	Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^* = (F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (z_a/T)$
1 231.	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-252.	Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^* = (F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-253.	Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^* = (F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-254.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-255.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-256.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-257.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-258.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.0)$ $K-203$

K-259.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
IX 23).	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.0)
K-260.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
K-200.	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.0)
V 261	, , , , , , , , , , , , , , , , , , , ,
K–261.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
W 060	L = 154 m, $\omega = 1.1000 \text{ rad/s}, F_n = 0.0)$
K-262.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000 \text{ rad/s}, F_n = 0.0)$
K-263.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K–264.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-265.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–266.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–267.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–268.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–269.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–270.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–271.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-272.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}$, $\omega = 0.2079 \text{ rad/s}$, $F_r = 0.3)$ $K-211$

K-273.	
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.3831 \text{ rad/s}, F_n = 0.3) \dots K-213$
K-274.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.3831 \text{ rad/s}, F_n = 0.3) \dots K-213$
K-275.	, 10 ,
K-273.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-276.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
K 270.	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-277.	Minimum and Maximum of Variables F_z^{hst} and $(F_z^{\text{hst}})^* = (F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-278.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-279.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-280.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
IZ 201	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–281.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
W 202	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K–282.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
K-283.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
K 203.	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
K-284.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-285.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-286.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.3)$ K-220

K-287.	Minimum and Maximum of Variables F_z^{hst} and $\left(F_z^{\text{hst}}\right)^* = \left(F_z^{\text{hst}} - \langle F_z^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-288.	Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^* = \left(F_z^{\rm hst} - \langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-289.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
V 200	
K-290.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-291.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-292.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-293.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
IZ 204	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-294.	Minimum and Maximum of Variables M_y^{hst} and $\left(M_y^{\text{hst}}\right)^* = \left(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
TT 205	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-295.	Minimum and Maximum of Variables M_y^{hst} and $\left(M_y^{\text{hst}}\right)^* = \left(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
V 206	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-296.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
17. 207	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-297.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
V 200	Minimum and Maximum of Variables M_y^{hst} and $\left(M_y^{\text{hst}}\right)^* = \left(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle\right)/(z_a/T)$
K–298.	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K–299.	Minimum and Maximum of Variables M_y^{hst} and $\left(M_y^{\text{hst}}\right)^* = \left(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-300.	Minimum and Maximum of Variables M_y^{hst} and $\left(M_y^{\text{hst}}\right)^* = \left(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
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K-301.	Minimum and Maximum of Variables M_y^{hst} and $\left(M_y^{\text{hst}}\right)^* = \left(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-302.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_v = 0.0$)
V 202	, , , , , , , , , , , , , , , , , , , ,
K-303.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-304.	Minimum and Maximum of Variables M_y^{hst} and $\left(M_y^{\text{hst}}\right)^* = \left(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.3831 \text{ rad/s}, F_n = 0.0)$
K-305.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-306.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-307.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-308.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-309.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000 \text{ rad/s}, F_n = 0.0)$
K-310.	Minimum and Maximum of Variables M_y^{hst} and $\left(M_y^{\text{hst}}\right)^* = \left(M_y^{\text{hst}} - \langle M_y^{\text{hst}} \rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-311.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-312.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-313.	Minimum and Maximum of Variables M_y^{hst} and $\left(M_y^{\mathrm{hst}}\right)^* = \left(M_y^{\mathrm{hst}} - \langle M_y^{\mathrm{hst}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-314.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)

K-315.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-316.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-317.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-318.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-319.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-320.	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-321.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-322.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-323.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-324.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-325.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-326.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-327.	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-328.	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)

K-329.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-330.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-331.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-332.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-333.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-334.	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-335.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-336.	Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^* = \left(M_y^{\rm hst} - \langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-337.	Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^* = \left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-338.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-339.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-340.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-341.	Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^* = \left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
K-342.	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

K-343.	Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^* = \left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
V 244	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-344.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-345.	Minimum and Maximum of Variables F_x^{rad} and $(F_x^{\text{rad}})^* = (F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle) / (z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-346.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-347.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.3831 \text{ rad/s}, F_n = 0.0)$
K-348.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
K 540.	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \ \omega = 0.3831 \text{ rad/s}, \ F_n = 0.0)$
K-349.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-350.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
V 251	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-351.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-352.	Minimum and Maximum of Variables F_x^{rad} and $(F_x^{\text{rad}})^* = (F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle) / (z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-353.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
TT 054	L = 154 m, $\omega = 1.1000 \text{ rad/s}$, $F_n = 0.0$)
K-354.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.0)$
K-355.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right) / (z_a/T)$
IX 333.	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-356.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$) K-264

K-357.	Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^* = \left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
II. 050	L = 154 m, $\omega = 1.1000 \text{ rad/s}, F_n = 0.0)$
K-358.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-359.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-360.	Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^* = \left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-361.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-362.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-363.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-364.	Minimum and Maximum of Variables F_x^{rad} and $(F_x^{\text{rad}})^* = (F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle) / (z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-365.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-366.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–367.	Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^* = \left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-368.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-369.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-370.	Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \omega = 0.3831 \text{ rad/s}, F_n = 0.3)$ $K-273$

Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^* = \left(F_x^{\rm rad} - \langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
Minimum and Maximum of Variables F_x^{rad} and $(F_x^{\text{rad}})^* = (F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle) / (z_a/T)$
for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right) / (z_a/T)$
for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right) / (z_a/T)$
for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
Minimum and Maximum of Variables F_x^{rad} and $(F_x^{\text{rad}})^* = (F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle) / (z_a/T)$
for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
$L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.3)$
Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right)/(z_a/T)$
for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
Minimum and Maximum of Variables F_x^{rad} and $\left(F_x^{\text{rad}}\right)^* = \left(F_x^{\text{rad}} - \langle F_x^{\text{rad}} \rangle\right) / (z_a/T)$
for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)

K-385.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-386.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-387.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-388.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-389.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-390.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-391.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-392.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K-393.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-394.	Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^* = \left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-395.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-396.	Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^* = \left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-397.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-398.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)

K-399.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-400.	Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^* = \left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-401.	Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^* = \left(F_z^{\rm rad} - \langle F_z^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-402.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000 \text{ rad/s}$, $F_n = 0.0$)
K-403.	Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^* = \left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-404.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-405.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-406.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-407.	Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^* = \left(F_z^{\rm rad} - \langle F_z^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-408.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-409.	Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^* = \left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–410.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–411.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
V 410	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–412.	Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^* = \left(F_z^{\rm rad} - \langle F_z^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)

K-413.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
V 414	
K–414.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
TT 44 F	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–415.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–416.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-417.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–418.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-419.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-420.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-421.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-422.	Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^* = \left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-423.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-424.	Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^* = \left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-425.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \ \omega = 1.1000 \text{ rad/s}, \ F_n = 0.3)$
K-426.	Minimum and Maximum of Variables F_z^{rad} and $(F_z^{\text{rad}})^* = (F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle) / (z_a/T)$
= : = 0.	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \ \omega = 1.1000 \text{ rad/s}, \ F_n = 0.3)$

K–427.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)
K-428.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
IX- 1 20.	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
V 420	
K–429.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
17 420	L = 154 m, $\omega = 1.1000 \text{ rad/s}, F_n = 0.3)$
K–430.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
TZ 401	L = 154 m, $\omega = 1.1000 \text{ rad/s}$, $F_n = 0.3$)
K–431.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
T7 422	154 m, $\omega = 1.1000 \text{ rad/s}, F_n = 0.3)$
K–432.	Minimum and Maximum of Variables F_z^{rad} and $\left(F_z^{\text{rad}}\right)^* = \left(F_z^{\text{rad}} - \langle F_z^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
TT 100	L = 154 m, $\omega = 1.1000 \text{ rad/s}$, $F_n = 0.3$)
K–433.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
TT 101	L = 154 m, $\omega = 0.2079 \text{ rad/s}$, $F_n = 0.0$)
K–434.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
T. 405	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K–435.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
TT 10 6	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K–436.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
TT 405	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K–437.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
TT 400	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K–438.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad}\rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
TZ 420	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K–439.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
T7 440	154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)
K–440.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

K-441.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K–442.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\mathrm{rad}}\right)^* = \left(M_y^{\mathrm{rad}} - \langle M_y^{\mathrm{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-443.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\mathrm{rad}}\right)^* = \left(M_y^{\mathrm{rad}} - \langle M_y^{\mathrm{rad}} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-444.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\mathrm{rad}}\right)^* = \left(M_y^{\mathrm{rad}} - \langle M_y^{\mathrm{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-445.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-446.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\mathrm{rad}}\right)^* = \left(M_y^{\mathrm{rad}} - \langle M_y^{\mathrm{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \omega = 0.3831 \text{ rad/s}, F_n = 0.0)$
K-447.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
11 11/1	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-448.	Minimum and Maximum of Variables M_u^{rad} and $\left(M_u^{\text{rad}}\right)^* = \left(M_u^{\text{rad}} - \langle M_u^{\text{rad}} \rangle\right)/(z_a/T)$
11-7-70.	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)
K-449.	Minimum and Maximum of Variables M_v^{rad} and $\left(M_v^{\text{rad}}\right)^* = \left(M_v^{\text{rad}} - \langle M_v^{\text{rad}} \rangle\right)/(z_a/T)$
IX- 11 7.	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.0)
V 450	
K–450.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
T7 451	L = 154 m, $\omega = 1.1000 \text{ rad/s}$, $F_n = 0.0$)
K–451.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K–452.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\mathrm{rad}}\right)^* = \left(M_y^{\mathrm{rad}} - \langle M_y^{\mathrm{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K–453.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\mathrm{rad}}\right)^* = \left(M_y^{\mathrm{rad}} - \langle M_y^{\mathrm{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-454.	Minimum and Maximum of Variables $M_y^{ m rad}$ and $\left(M_y^{ m rad} ight)^* = \left(M_y^{ m rad} - \langle M_y^{ m rad} angle ight)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)

K-455.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-456.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)
K-457.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K–458.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	I = 154 m (1. 0.2070 mod/s $E = 0.2$)
K-459.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-460.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-461.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\mathrm{rad}}\right)^* = \left(M_y^{\mathrm{rad}} - \langle M_y^{\mathrm{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-462.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)
K-463.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)
K-464.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 0.2079 \text{ rad/s}, F_n = 0.3)$
K-465.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
K- 4 05.	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \ \omega = 0.3831 \text{ rad/s}, \ F_n = 0.3)$
K-466.	Minimum and Maximum of Variables M_{y}^{rad} and $\left(M_{y}^{\mathrm{rad}}\right)^{*}=\left(M_{y}^{\mathrm{rad}}-\langle M_{y}^{\mathrm{rad}}\rangle\right)/(z_{a}/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-467.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\mathrm{rad}}\right)^* = \left(M_y^{\mathrm{rad}} - \langle M_y^{\mathrm{rad}} \rangle \right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–468.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)

K-469.	
	for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-470.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-471.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\mathrm{rad}}\right)^* = \left(M_y^{\mathrm{rad}} - \langle M_y^{\mathrm{rad}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K-472.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
TT 450	L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)
K–473.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to
T7 4514	L = 154 m, $\omega = 1.1000 \text{ rad/s}$, $F_n = 0.3$)
K–474.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to
TT 455	L = 154 m, $\omega = 1.1000 \text{ rad/s}$, $F_n = 0.3$)
K–475.	Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^* = \left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$
	for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to
TZ 4576	L = 154 m, $\omega = 1.1000 \text{ rad/s}$, $F_n = 0.3$)
K–476.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
	for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to $L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.3)$
V 177	, 10 ,
K–477.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
K-478.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}} \rangle\right)/(z_a/T)$
K -4 /0.	for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to
	L = 154 m, ω = 1.1000 rad/s, F_n = 0.3)
K-479.	Minimum and Maximum of Variables M_y^{rad} and $\left(M_y^{\mathrm{rad}}\right)^* = \left(M_y^{\mathrm{rad}} - \langle M_y^{\mathrm{rad}} \rangle\right)/(z_a/T)$
	for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L =
	154 m, $\omega = 1.1000 \text{ rad/s}, F_n = 0.3)$
K-480.	$ \text{Minimum and Maximum of Variables } M_y^{\text{rad}} \text{ and } \left(M_y^{\text{rad}}\right)^* = \left(M_y^{\text{rad}} - \langle M_y^{\text{rad}}\rangle\right)/(z_a/T) $
	for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to
	$L = 154 \text{ m}, \omega = 1.1000 \text{ rad/s}, F_n = 0.3)$ K-341

Introduction

This appendix contains plots and tables related to the minimum and maximum value of each variable versus the nondimensional heave amplitude z_a/T for the prescribed heave motion of Model 5514 in task 1. The plots are found in Figures K–1 through K–60. For each variable, speed, and frequency there is one plot that depicts the results from all the codes. If f stands for a time-dependent variable, then the quantities plotted are the minimum and maximum of

$$f^* \equiv \frac{f - \langle f \rangle}{z_a / T}$$

where $\langle f \rangle$ is the mean. Only filtered values f are used since filtered values lessen the impact of spikes that probably originate in numerical filtering schemes in the codes. Linear variation as a function of the amplitude appears as a horizontal line. Quadratic variation appears as a straight line with a nonzero slope.

Tables K-1 through K-480 in this appendix correspond to the plots. Following each plot is one table for each of the eight codes for which data were received. The tables give information about the mean, the minimum and maximum of the unfiltered variable, the minimum and maximum of the filtered variable, and the starred function depicted in the figure.

For the corresponding time history plots, the reader is referred to Appendix B.

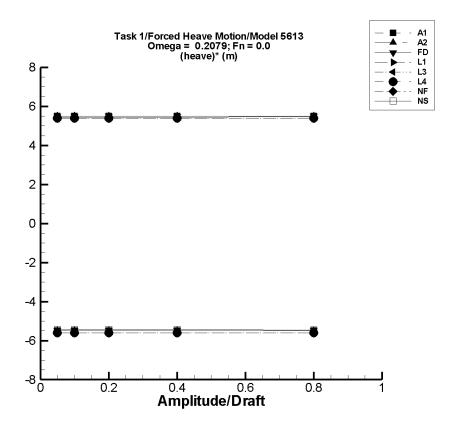


Figure K–1. Minimum and maximum of filtered $(z_e - \langle z_e \rangle)/(z_a/T)$ vs. (z_a/T) for $\omega = 0.2079$ rad/s, $F_n = 0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–1. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

AEGIR-1									
	$\langle z_e angle$	Unfilte	Unfiltered z_e		Filtered z_e		$\mathrm{d} \ \left(z_e ight)^*$		
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(m)	(m)	(m)	(m)	(m)	(m)	(m)		
.05	-1.82E-07	-0.275	0.275	-0.275	0.275	-5.49	5.50		
.10	-3.78E-07	-0.550	0.550	-0.549	0.550	-5.49	5.50		
.20	-7.22E-07	-1.10	1.10	-1.10	1.10	-5.49	5.50		
.40	-1.62E-06	-2.20	2.20	-2.20	2.20	-5.49	5.50		
.80	-3.05E-06	-4.40	4.40	-4.40	4.40	-5.49	5.50		

Table K–2. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

AEGIR-2										
	$\langle z_e angle$	Unfilte	Unfiltered z_e		Filtered z_e		$\mathrm{d} \; \left(z_e ight)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(m)	(m)	(m)	(m)	(m)	(m)	(m)			
.05	-1.82E-07	-0.275	0.275	-0.275	0.275	-5.49	5.50			
.10	-3.78E-07	-0.550	0.550	-0.549	0.550	-5.49	5.50			
.20	-7.22E-07	-1.10	1.10	-1.10	1.10	-5.49	5.50			
.40	-1.62E-06	-2.20	2.20	-2.20	2.20	-5.49	5.50			
.80	-3.05E-06	-4.40	4.40	-4.40	4.40	-5.49	5.50			

Table K–3. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

FREDYN									
	$\langle z_e angle$	Unfilte	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$		
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(m)	(m)	(m)	(m)	(m)	(m)	(m)		
.05	-3.18E-08	-0.275	0.275	-0.275	0.275	-5.49	5.49		
.10	-9.58E-08	-0.550	0.550	-0.549	0.549	-5.49	5.49		
.20	-1.75E-07	-1.10	1.10	-1.10	1.10	-5.49	5.49		
.40	-3.96E-07	-2.20	2.20	-2.20	2.20	-5.49	5.49		
.80	-9.35E-07	-4.40	4.40	-4.40	4.40	-5.49	5.49		

Table K–4. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

LAMP-1										
	$\langle z_e angle$	Unfilte	Unfiltered z_e		Filtered z_e		$\mathrm{d} \; \left(z_e ight)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(m)	(m)	(m)	(m)	(m)	(m)	(m)			
.05	-1.97E-07	-0.275	0.275	-0.275	0.275	-5.50	5.50			
.10	-4.35E-07	-0.550	0.550	-0.550	0.550	-5.50	5.50			
.20	-7.49E-07	-1.10	1.10	-1.10	1.10	-5.50	5.50			
.40	-1.22E-06	-2.20	2.20	-2.20	2.20	-5.50	5.50			
.80	-2.70E-06	-4.40	4.40	-4.40	4.40	-5.50	5.50			

Table K–5. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

LAMP-3									
	$\langle z_e angle$	Unfilte	Unfiltered z_e		Filtered z_e		$\mathrm{d} \ \left(z_e ight)^*$		
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(m)	(m)	(m)	(m)	(m)	(m)	(m)		
.05	-1.97E-07	-0.275	0.275	-0.275	0.275	-5.50	5.50		
.10	-4.35E-07	-0.550	0.550	-0.550	0.550	-5.50	5.50		
.20	-7.49E-07	-1.10	1.10	-1.10	1.10	-5.50	5.50		
.40	-1.22E-06	-2.20	2.20	-2.20	2.20	-5.50	5.50		
.80	-2.70E-06	-4.40	4.40	-4.40	4.40	-5.50	5.50		

Table K–6. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

LAMP-4										
	$\langle z_e angle$ Unfiltered z_e Filte		Filtered z_e		Filtered $(z_e)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(m)	(m)	(m)	(m)	(m)	(m)	(m)			
.05	-1.97E-07	-0.275	0.275	-0.275	0.275	-5.50	5.50			
.10	-4.35E-07	-0.550	0.550	-0.550	0.550	-5.50	5.50			
.20	-7.49E-07	-1.10	1.10	-1.10	1.10	-5.50	5.50			
.40	-1.22E-06	-2.20	2.20	-2.20	2.20	-5.50	5.50			
.80	-2.70E-06	-4.40	4.40	-4.40	4.40	-5.50	5.50			

Table K–7. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

NFA										
	$\langle z_e angle$	Unfilte	ered z_e	Filter	$\operatorname{ed}\ z_e$	Filtered $(z_e)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(m)	(m)	(m)	(m)	(m)	(m)	(m)			
.05		_	_	_			_			
.10		_		_			_			
.20		_	_	_	_	_	_			
.40			_	_	_		_			
.80			_	_						

Table K–8. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

NSHIPMO											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	2.93E-08	-0.275	0.275	-0.272	0.272	-5.45	5.45				
.10	6.32E-08	-0.550	0.550	-0.545	0.545	-5.45	5.45				
.20	1.29E-07	-1.10	1.10	-1.09	1.09	-5.45	5.45				
.40	2.39E-07	-2.20	2.20	-2.18	2.18	-5.45	5.45				
.80	2.05E-07	-4.40	4.40	-4.36	4.36	-5.46	5.46				

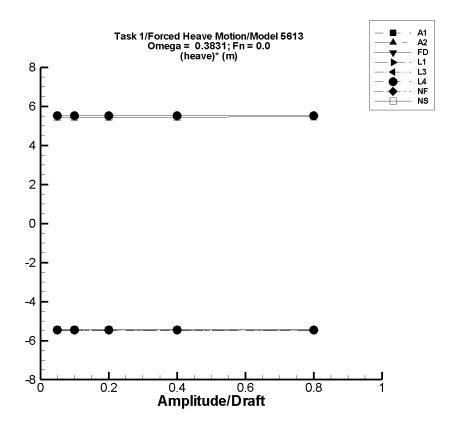


Figure K–2. Minimum and maximum of filtered $(z_e - \langle z_e \rangle)/(z_a/T)$ vs. (z_a/T) for $\omega = 0.3831$ rad/s, $F_n = 0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–9. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)

	AEGIR-1										
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	1.38E-08	-0.275	0.275	-0.274	0.276	-5.48	5.52				
.10	7.26E-09	-0.550	0.550	-0.548	0.552	-5.48	5.52				
.20	2.27E-08	-1.10	1.10	-1.10	1.10	-5.48	5.52				
.40	3.01E-08	-2.20	2.20	-2.19	2.21	-5.48	5.52				
.80	5.34E-08	-4.40	4.40	-4.38	4.41	-5.48	5.52				

Table K–10. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-2											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	1.38E-08	-0.275	0.275	-0.274	0.276	-5.48	5.52					
.10	7.26E-09	-0.550	0.550	-0.548	0.552	-5.48	5.52					
.20	2.27E-08	-1.10	1.10	-1.10	1.10	-5.48	5.52					
.40	3.01E-08	-2.20	2.20	-2.19	2.21	-5.48	5.52					
.80	5.34E-08	-4.40	4.40	-4.38	4.41	-5.48	5.52					

Table K–11. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	FREDYN											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-1.63E-08	-0.275	0.275	-0.274	0.274	-5.48	5.48					
.10	-4.38E-08	-0.550	0.550	-0.548	0.548	-5.48	5.48					
.20	-1.05E-07	-1.10	1.10	-1.10	1.10	-5.48	5.48					
.40	-1.66E-07	-2.20	2.20	-2.19	2.19	-5.48	5.48					
.80	-2.70E-07	-4.40	4.40	-4.38	4.38	-5.48	5.48					

Table K–12. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-1											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-3.95E-07	-0.275	0.275	-0.275	0.275	-5.49	5.49					
.10	-6.99E-07	-0.550	0.550	-0.549	0.549	-5.49	5.49					
.20	-1.33E-06	-1.10	1.10	-1.10	1.10	-5.49	5.49					
.40	-2.90E-06	-2.20	2.20	-2.20	2.20	-5.49	5.49					
.80	-6.32E-06	-4.40	4.40	-4.39	4.39	-5.49	5.49					

Table K–13. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-3											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-3.95E-07	-0.275	0.275	-0.275	0.275	-5.49	5.49					
.10	-6.99E-07	-0.550	0.550	-0.549	0.549	-5.49	5.49					
.20	-1.33E-06	-1.10	1.10	-1.10	1.10	-5.49	5.49					
.40	-2.90E-06	-2.20	2.20	-2.20	2.20	-5.49	5.49					
.80	-6.32E-06	-4.40	4.40	-4.39	4.39	-5.49	5.49					

Table K–14. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-4											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	(z_a/T) Mean		Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-3.95E-07	-0.275	0.275	-0.275	0.275	-5.49	5.49					
.10	-6.99E-07	-0.550	0.550	-0.549	0.549	-5.49	5.49					
.20	-1.33E-06	-1.10	1.10	-1.10	1.10	-5.49	5.49					
.40	-2.90E-06	-2.20	2.20	-2.20	2.20	-5.49	5.49					
.80	-6.32E-06	-4.40	4.40	-4.39	4.39	-5.49	5.49					

Table K–15. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NFA											
	$\langle z_e angle$	Unfilte	ered z_e	Filter	$\operatorname{ed}\ z_{e}$	Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05			_	_								
.10				_								
.20		_	_	_								
.40		_	_	_								
.80				_								

Table K–16. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NSHIPMO											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	5.12E-09	-0.275	0.275	-0.272	0.272	-5.44	5.44					
.10	1.96E-08	-0.550	0.550	-0.544	0.544	-5.44	5.44					
.20	4.58E-08	-1.10	1.10	-1.09	1.09	-5.44	5.44					
.40	-3.34E-08	-2.20	2.20	-2.18	2.18	-5.44	5.44					
.80	4.96E-07	-4.40	4.40	-4.36	4.36	-5.46	5.46					

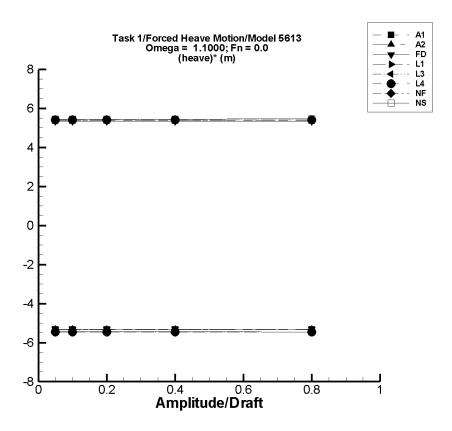


Figure K–3. Minimum and maximum of filtered $(z_e - \langle z_e \rangle)/(z_a/T)$ vs. (z_a/T) for $\omega = 1.1000$ rad/s, $F_n = 0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–17. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-1											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-2.91E-07	-0.275	0.275	-0.266	0.268	-5.33	5.37					
.10	-5.71E-07	-0.550	0.550	-0.533	0.537	-5.33	5.37					
.20	-1.21E-06	-1.10	1.10	-1.07	1.07	-5.33	5.37					
.40	-2.33E-06	-2.20	2.20	-2.13	2.15	-5.33	5.37					
.80	-4.73E-06	-4.40	4.40	-4.26	4.29	-5.33	5.37					

Table K–18. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-2											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-2.91E-07	-0.275	0.275	-0.266	0.268	-5.33	5.37					
.10	-5.71E-07	-0.550	0.550	-0.533	0.537	-5.33	5.37					
.20	-1.21E-06	-1.10	1.10	-1.07	1.07	-5.33	5.37					
.40	-2.33E-06	-2.20	2.20	-2.13	2.15	-5.33	5.37					
.80	-4.73E-06	-4.40	4.40	-4.26	4.29	-5.33	5.37					

Table K–19. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)

	FREDYN											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-5.43E-08	-0.275	0.275	-0.266	0.266	-5.33	5.33					
.10	-1.21E-07	-0.549	0.550	-0.533	0.533	-5.33	5.33					
.20	-2.64E-07	-1.10	1.10	-1.07	1.07	-5.33	5.33					
.40	-4.83E-07	-2.20	2.20	-2.13	2.13	-5.33	5.33					
.80	-9.56E-07	-4.39	4.40	-4.26	4.26	-5.33	5.33					

Table K–20. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-1											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered (z_e)						
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-5.88E-07	-0.275	0.275	-0.272	0.272	-5.44	5.44					
.10	-1.20E-06	-0.550	0.550	-0.544	0.544	-5.44	5.44					
.20	-2.35E-06	-1.10	1.10	-1.09	1.09	-5.44	5.44					
.40	-4.81E-06	-2.20	2.20	-2.17	2.17	-5.44	5.44					
.80	-9.72E-06	-4.40	4.40	-4.35	4.35	-5.44	5.44					

Table K–21. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.0$)

	LAMP-3										
	$\langle z_e angle$	Unfilte	Unfiltered z_e		Filtered z_e		$\mathrm{d} \ \left(z_e ight)^*$				
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	-5.88E-07	-0.275	0.275	-0.272	0.272	-5.44	5.44				
.10	-1.20E-06	-0.550	0.550	-0.544	0.544	-5.44	5.44				
.20	-2.35E-06	-1.10	1.10	-1.09	1.09	-5.44	5.44				
.40	-4.81E-06	-2.20	2.20	-2.17	2.17	-5.44	5.44				
.80	-9.72E-06	-4.40	4.40	-4.35	4.35	-5.44	5.44				

Table K–22. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$					
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	-5.88E-07	-0.275	0.275	-0.272	0.272	-5.44	5.44				
.10	-1.20E-06	-0.550	0.550	-0.544	0.544	-5.44	5.44				
.20	-2.35E-06	-1.10	1.10	-1.09	1.09	-5.44	5.44				
.40	-4.81E-06	-2.20	2.20	-2.17	2.17	-5.44	5.44				
.80	-9.72E-06	-4.40	4.40	-4.35	4.35	-5.44	5.44				

Table K–23. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NFA										
	$\langle z_e angle$	Unfiltered z_e		Filter	$\operatorname{ed}\ z_e$	Filtere	$\det (z_e)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05		_	_	_			_				
.10		_		_			_				
.20		_	_	_	_	_	_				
.40			_	_	_		_				
.80			_	_							

Table K–24. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NSHIPMO											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-1.04E-08	-0.275	0.275	-0.272	0.272	-5.44	5.44					
.10	-1.84E-08	-0.550	0.550	-0.544	0.544	-5.44	5.44					
.20	-4.64E-08	-1.10	1.10	-1.09	1.09	-5.44	5.44					
.40	-3.47E-08	-2.20	2.20	-2.18	2.18	-5.44	5.44					
.80	-4.82E-07	-4.40	4.40	-4.36	4.36	-5.46	5.46					

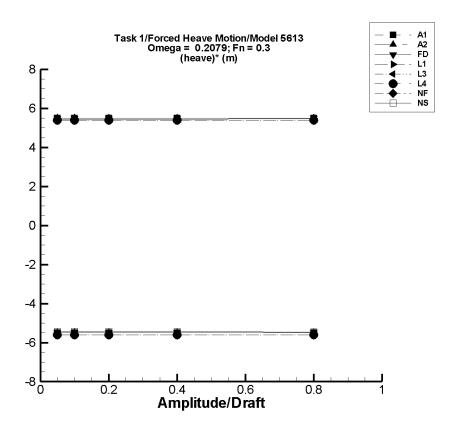


Figure K–4. Minimum and maximum of filtered $(z_e - \langle z_e \rangle)/(z_a/T)$ vs. (z_a/T) for $\omega = 0.2079$ rad/s, $F_n = 0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–25. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)

	AEGIR-1										
	$\langle z_e angle$	Unfilte	Unfiltered z_e		Filtered z_e		$\det (z_e)^*$				
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	-1.82E-07	-0.275	0.275	-0.275	0.275	-5.49	5.50				
.10	-3.78E-07	-0.550	0.550	-0.549	0.550	-5.49	5.50				
.20	-7.22E-07	-1.10	1.10	-1.10	1.10	-5.49	5.50				
.40	-1.62E-06	-2.20	2.20	-2.20	2.20	-5.49	5.50				
.80	-3.05E-06	-4.40	4.40	-4.40	4.40	-5.49	5.50				

Table K–26. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-2											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-1.82E-07	-0.275	0.275	-0.275	0.275	-5.49	5.50					
.10	-3.78E-07	-0.550	0.550	-0.549	0.550	-5.49	5.50					
.20	-7.22E-07	-1.10	1.10	-1.10	1.10	-5.49	5.50					
.40	-1.62E-06	-2.20	2.20	-2.20	2.20	-5.49	5.50					
.80	-3.05E-06	-4.40	4.40	-4.40	4.40	-5.49	5.50					

Table K–27. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)

	FREDYN										
	$\langle z_e angle$	Unfilte	Unfiltered z_e		Filtered z_e		$\det (z_e)^*$				
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	-3.18E-08	-0.275	0.275	-0.275	0.275	-5.49	5.49				
.10	-9.58E-08	-0.550	0.550	-0.549	0.549	-5.49	5.49				
.20	-1.75E-07	-1.10	1.10	-1.10	1.10	-5.49	5.49				
.40	-3.96E-07	-2.20	2.20	-2.20	2.20	-5.49	5.49				
.80	-9.35E-07	-4.40	4.40	-4.40	4.40	-5.49	5.49				

Table K–28. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle z_e angle$	Unfilte	$red\ z_e$	Filtered z_e		Filtere	$rac{{ m d} \; \left(z_e ight)^*}{}$					
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-1.97E-07	-0.275	0.275	-0.275	0.275	-5.50	5.50					
.10	-4.35E-07	-0.550	0.550	-0.550	0.550	-5.50	5.50					
.20	-7.49E-07	-1.10	1.10	-1.10	1.10	-5.50	5.50					
.40	-1.22E-06	-2.20	2.20	-2.20	2.20	-5.50	5.50					
.80	-2.70E-06	-4.40	4.40	-4.40	4.40	-5.50	5.50					

Table K–29. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle z_e angle$	Unfilte	Unfiltered z_e		Filtered z_e		$\mathrm{d} \ (z_e)^*$				
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	-1.97E-07	-0.275	0.275	-0.275	0.275	-5.50	5.50				
.10	-4.35E-07	-0.550	0.550	-0.550	0.550	-5.50	5.50				
.20	-7.49E-07	-1.10	1.10	-1.10	1.10	-5.50	5.50				
.40	-1.22E-06	-2.20	2.20	-2.20	2.20	-5.50	5.50				
.80	-2.70E-06	-4.40	4.40	-4.40	4.40	-5.50	5.50				

Table K–30. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered (z_e)						
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-1.97E-07	-0.275	0.275	-0.275	0.275	-5.50	5.50					
.10	-4.35E-07	-0.550	0.550	-0.550	0.550	-5.50	5.50					
.20	-7.49E-07	-1.10	1.10	-1.10	1.10	-5.50	5.50					
.40	-1.22E-06	-2.20	2.20	-2.20	2.20	-5.50	5.50					
.80	-2.70E-06	-4.40	4.40	-4.40	4.40	-5.50	5.50					

Table K–31. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NFA										
	$\langle z_e angle$	Unfiltered z_e		Filter	$\operatorname{ed}\ z_e$	Filtere	$\det (z_e)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05		_	_	_			_				
.10		_		_			_				
.20		_	_	_	_	_	_				
.40			_	_	_		_				
.80			_	_							

Table K–32. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	2.93E-08	-0.275	0.275	-0.272	0.272	-5.45	5.45					
.10	6.32E-08	-0.550	0.550	-0.545	0.545	-5.45	5.45					
.20	1.29E-07	-1.10	1.10	-1.09	1.09	-5.45	5.45					
.40	2.39E-07	-2.20	2.20	-2.18	2.18	-5.45	5.45					
.80	2.05E-07	-4.40	4.40	-4.36	4.36	-5.46	5.46					

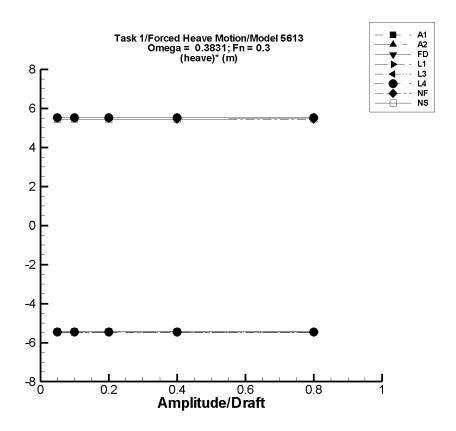


Figure K–5. Minimum and maximum of filtered $(z_e - \langle z_e \rangle)/(z_a/T)$ vs. (z_a/T) for $\omega = 0.3831$ rad/s, $F_n = 0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–33. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	1.38E-08	-0.275	0.275	-0.274	0.276	-5.48	5.52				
.10	7.26E-09	-0.550	0.550	-0.548	0.552	-5.48	5.52				
.20	2.27E-08	-1.10	1.10	-1.10	1.10	-5.48	5.52				
.40	3.01E-08	-2.20	2.20	-2.19	2.21	-5.48	5.52				
.80	5.34E-08	-4.40	4.40	-4.38	4.41	-5.48	5.52				

Table K–34. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	1.38E-08	-0.275	0.275	-0.274	0.276	-5.48	5.52				
.10	7.26E-09	-0.550	0.550	-0.548	0.552	-5.48	5.52				
.20	2.27E-08	-1.10	1.10	-1.10	1.10	-5.48	5.52				
.40	3.01E-08	-2.20	2.20	-2.19	2.21	-5.48	5.52				
.80	5.34E-08	-4.40	4.40	-4.38	4.41	-5.48	5.52				

Table K–35. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)

	FREDYN											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-1.63E-08	-0.275	0.275	-0.274	0.274	-5.48	5.48					
.10	-4.38E-08	-0.550	0.550	-0.548	0.548	-5.48	5.48					
.20	-1.05E-07	-1.10	1.10	-1.10	1.10	-5.48	5.48					
.40	-1.66E-07	-2.20	2.20	-2.19	2.19	-5.48	5.48					
.80	-2.70E-07	-4.40	4.40	-4.38	4.38	-5.48	5.48					

Table K–36. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$					
(z_a/T)	$ z_a/T $ Mean		Max.	Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	-3.95E-07	-0.275	0.275	-0.275	0.275	-5.49	5.49				
.10	-6.99E-07	-0.550	0.550	-0.549	0.549	-5.49	5.49				
.20	-1.33E-06	-1.10	1.10	-1.10	1.10	-5.49	5.49				
.40	-2.90E-06	-2.20	2.20	-2.20	2.20	-5.49	5.49				
.80	-6.32E-06	-4.40	4.40	-4.39	4.39	-5.49	5.49				

Table K–37. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	-3.95E-07	-0.275	0.275	-0.275	0.275	-5.49	5.49				
.10	-6.99E-07	-0.550	0.550	-0.549	0.549	-5.49	5.49				
.20	-1.33E-06	-1.10	1.10	-1.10	1.10	-5.49	5.49				
.40	-2.90E-06	-2.20	2.20	-2.20	2.20	-5.49	5.49				
.80	-6.32E-06	-4.40	4.40	-4.39	4.39	-5.49	5.49				

Table K–38. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-3.95E-07	-0.275	0.275	-0.275	0.275	-5.49	5.49					
.10	-6.99E-07	-0.550	0.550	-0.549	0.549	-5.49	5.49					
.20	-1.33E-06	-1.10	1.10	-1.10	1.10	-5.49	5.49					
.40	-2.90E-06	-2.20	2.20	-2.20	2.20	-5.49	5.49					
.80	-6.32E-06	-4.40	4.40	-4.39	4.39	-5.49	5.49					

Table K–39. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NFA											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered (z_e)						
(z_a/T)	(z_a/T) Mean		Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	_		_	_	_		_					
.10	_	_	_	_			_					
.20	4.13E-03	-1.10	1.10	-1.09	1.09	-5.48	5.44					
.40	8.27E-03	-2.20	2.20	-2.19	2.19	-5.48	5.44					
.80	1.65E-02	-4.40	4.40	-4.37	4.37	-5.48	5.44					

Table K–40. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered (z_e)						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	5.12E-09	-0.275	0.275	-0.272	0.272	-5.44	5.44					
.10	1.96E-08	-0.550	0.550	-0.544	0.544	-5.44	5.44					
.20	4.58E-08	-1.10	1.10	-1.09	1.09	-5.44	5.44					
.40	-3.34E-08	-2.20	2.20	-2.18	2.18	-5.44	5.44					
.80	4.96E-07	-4.40	4.40	-4.36	4.36	-5.46	5.46					

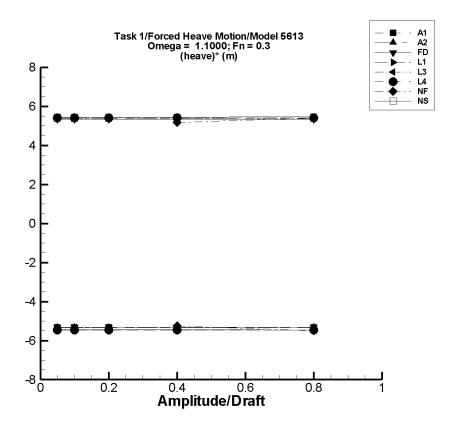


Figure K–6. Minimum and maximum of filtered $(z_e - \langle z_e \rangle)/(z_a/T)$ vs. (z_a/T) for $\omega = 1.1000$ rad/s, $F_n = 0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–41. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	-2.91E-07	-0.275	0.275	-0.266	0.268	-5.33	5.37				
.10	-5.71E-07	-0.550	0.550	-0.533	0.537	-5.33	5.37				
.20	-1.21E-06	-1.10	1.10	-1.07	1.07	-5.33	5.37				
.40	-2.33E-06	-2.20	2.20	-2.13	2.15	-5.33	5.37				
.80	-4.73E-06	-4.40	4.40	-4.26	4.29	-5.33	5.37				

Table K–42. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-2											
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^{\cdot}$						
(z_a/T)	(z_a/T) Mean		Max.	Min.	Max.	Min.	Max.					
	(m)	(m)	(m)	(m)	(m)	(m)	(m)					
.05	-2.91E-07	-0.275	0.275	-0.266	0.268	-5.33	5.37					
.10	-5.71E-07	-0.550	0.550	-0.533	0.537	-5.33	5.37					
.20	-1.21E-06	-1.10	1.10	-1.07	1.07	-5.33	5.37					
.40	-2.33E-06	-2.20	2.20	-2.13	2.15	-5.33	5.37					
.80	-4.73E-06	-4.40	4.40	-4.26	4.29	-5.33	5.37					

Table K–43. Minimum and Maximum of Variables z_e and $(z_e)^* = (z_e - \langle z_e \rangle) / (z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)

	FREDYN										
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(m)	(m)	(m)	(m)	(m)	(m)	(m)				
.05	-5.43E-08	-0.275	0.275	-0.266	0.266	-5.33	5.33				
.10	-1.21E-07	-0.549	0.550	-0.533	0.533	-5.33	5.33				
.20	-2.64E-07	-1.10	1.10	-1.07	1.07	-5.33	5.33				
.40	-4.83E-07	-2.20	2.20	-2.13	2.13	-5.33	5.33				
.80	-9.56E-07	-4.39	4.40	-4.26	4.26	-5.33	5.33				

Table K–44. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

LAMP-1								
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$		
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.	
	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
.05	-5.88E-07	-0.275	0.275	-0.272	0.272	-5.44	5.44	
.10	-1.20E-06	-0.550	0.550	-0.544	0.544	-5.44	5.44	
.20	-2.35E-06	-1.10	1.10	-1.09	1.09	-5.44	5.44	
.40	-4.81E-06	-2.20	2.20	-2.17	2.17	-5.44	5.44	
.80	-9.72E-06	-4.40	4.40	-4.35	4.35	-5.44	5.44	

Table K–45. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

LAMP-3								
	$\langle z_e angle$ Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.	
	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
.05	-5.88E-07	-0.275	0.275	-0.272	0.272	-5.44	5.44	
.10	-1.20E-06	-0.550	0.550	-0.544	0.544	-5.44	5.44	
.20	-2.35E-06	-1.10	1.10	-1.09	1.09	-5.44	5.44	
.40	-4.81E-06	-2.20	2.20	-2.17	2.17	-5.44	5.44	
.80	-9.72E-06	-4.40	4.40	-4.35	4.35	-5.44	5.44	

Table K–46. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

LAMP-4								
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$		
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.	
	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
.05	-5.88E-07	-0.275	0.275	-0.272	0.272	-5.44	5.44	
.10	-1.20E-06	-0.550	0.550	-0.544	0.544	-5.44	5.44	
.20	-2.35E-06	-1.10	1.10	-1.09	1.09	-5.44	5.44	
.40	-4.81E-06	-2.20	2.20	-2.17	2.17	-5.44	5.44	
.80	-9.72E-06	-4.40	4.40	-4.35	4.35	-5.44	5.44	

Table K–47. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

NFA								
	$\langle z_e angle$	Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$		
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.	
	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
.05	_		_	_	_		_	
.10	_			_	_		_	
.20	9.55E-03	-1.10	1.10	-1.04	1.04	-5.25	5.16	
.40	1.91E-02	-2.20	2.20	-2.08	2.08	-5.25	5.16	
.80	1.91E-02	-4.40	4.40	-4.38	4.34	-5.50	5.40	

Table K–48. Minimum and Maximum of Variables z_e and $(z_e)^*=(z_e-\langle z_e\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

NSHIPMO								
	$\langle z_e angle$ Unfiltered z_e		Filtered z_e		Filtered $(z_e)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.	
	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
.05	-1.04E-08	-0.275	0.275	-0.272	0.272	-5.44	5.44	
.10	-1.84E-08	-0.550	0.550	-0.544	0.544	-5.44	5.44	
.20	-4.64E-08	-1.10	1.10	-1.09	1.09	-5.44	5.44	
.40	-3.47E-08	-2.20	2.20	-2.18	2.18	-5.44	5.44	
.80	-4.82E-07	-4.40	4.40	-4.36	4.36	-5.46	5.46	

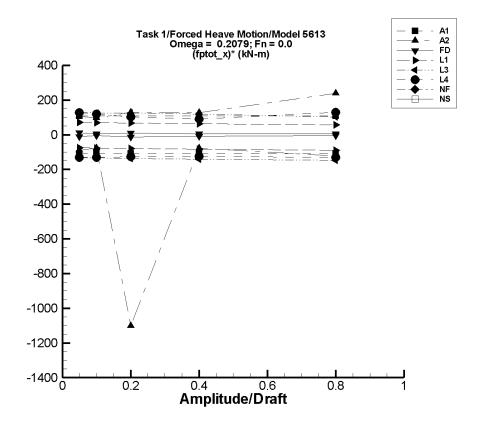


Figure K–7. Minimum and maximum of filtered $(F_x^{\rm ptot} - \langle F_x^{\rm ptot} \rangle) / (z_a/T)$ vs. (z_a/T) for $\omega = 0.2079$ rad/s, $F_n = 0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–49. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-1									
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_x^{ ext{ptot}}$		Filtered F_x^{ptot}		Filtered	$\left(oldsymbol{F_x^{ ext{ptot}}} ight)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	-1.04E-03	-5.43	5.45	-5.42	5.43	-108.	109.			
.10	-2.07E-03	-10.9	10.9	-10.8	10.9	-108.	109.			
.20	-4.14E-03	-21.7	21.8	-21.7	21.7	-108.	109.			
.40	-8.28E-03	-43.5	43.6	-43.4	43.4	-108.	109.			
.80	-1.66E-02	-86.9	87.3	-86.7	86.8	-108.	109.			

Table K–50. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{ ext{ptot}}$	Filtered $F_x^{ ext{ptot}}$		Filtered $(F_x^{\text{ptot}})^{\frac{1}{2}}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	7.09	2.09	12.4	2.64	12.4	-89.1	105.				
.10	10.5	1.90	20.6	2.71	20.1	-77.6	96.0				
.20	12.8	-1.63E+03	38.6	-207.	38.7	-1.10E+03	129.				
.40	33.6	-31.1	84.4	2.54	84.2	-77.6	127.				
.80	90.2	-30.7	1.05E+03	-8.74	281.	-124.	238.				

Table K–51. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle oldsymbol{F}_{oldsymbol{x}}^{ ext{ptot}} angle$	Unfiltered $F_{x}^{ m ptot}$		Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{ptot}}$	Filtered	$oldsymbol{\left(F_{oldsymbol{x}}^{ ext{ptot}} ight)^{oldsymbol{st}}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.84	-9.37	-8.29	-9.37	-8.29	-10.6	11.0				
.10	-8.87	-9.37	-8.28	-9.36	-8.29	-4.95	5.75				
.20	-9.37	-12.0	-7.55	-11.9	-7.55	-12.9	9.07				
.40	-8.36	-12.0	-6.62	-11.7	-6.63	-8.26	4.33				
.80	-7.06	-12.0	-2.14	-10.7	-2.15	-4.58	6.14				

Table K–52. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered F_x^{ptot}		Filtered F_x^{ptot}		Filtere	$\mathbf{d} \; \left(oldsymbol{F_{x}^{ ext{ptot}}} ight)^{*}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	4.87E-02	-3.66	3.66	-3.66	3.66	-74.2	72.3				
.10	0.195	-7.33	7.33	-7.33	7.33	-75.2	71.3				
.20	0.779	-14.7	14.7	-14.6	14.7	-77.1	69.4				
.40	3.12	-29.3	29.3	-29.3	29.3	-81.0	65.5				
.80	12.5	-58.6	58.8	-58.6	58.8	-88.8	57.9				

Table K–53. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $oldsymbol{F_x^{ ext{ptot}}}$		Filtered F_x^{ptot}		Filtere	$\left(oldsymbol{F_x^{ ext{ptot}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.0	-45.6	-32.5	-45.6	-32.5	-130.	131.				
.10	-38.8	-52.0	-26.0	-52.0	-26.0	-131.	128.				
.20	-38.2	-64.9	-12.8	-64.9	-12.9	-134.	127.				
.40	-36.0	-91.3	12.8	-91.2	12.8	-138.	122.				
.80	-28.6	-144.	55.1	-143.	55.1	-144.	105.				

Table K–54. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_{m{x}}^{ ext{ptot}}$		Filtered F_x^{ptot}		Filtered (F_x^{ptot})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.0	-45.4	-32.4	-45.4	-32.4	-129.	130.				
.10	-38.6	-51.3	-26.5	-51.3	-26.5	-128.	121.				
.20	-37.4	-62.4	-15.6	-62.4	-16.3	-125.	106.				
.40	-33.6	-82.2	5.45	-82.0	3.54	-121.	92.8				
.80	-23.4	-147.	100.	-126.	82.3	-128.	132.				

Table K–55. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NFA										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered F_x^{ptot}		Filtered F_x^{ptot}		Filtered	$\left(oldsymbol{F_x^{ ext{ptot}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_		_	_	_	_				
.10				_	_		_				
.20				_	_		_				
.40	_			_	_	_	_				
.80	_						_				

Table K–56. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_x^{ ext{ptot}}$		Filtered F_x^{ptot}		Filtered	$oxed{\left(oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}} ight)^{oldsymbol{*}}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_	_	_					
.10				_	_	_	_				
.20					_		_				
.40				_	_	_	_				
.80					_		_				

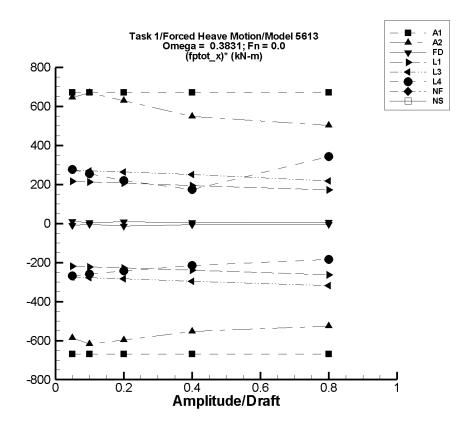


Figure K–8. Minimum and maximum of filtered $(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–57. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered F_x^{ptot}		Filtered F_x^{ptot}		Filtered	$\left(oldsymbol{F_x^{ ext{ptot}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.68E-02	-33.6	33.6	-33.5	33.4	-669.	671.				
.10	-0.174	-67.3	67.1	-67.1	66.9	-669.	671.				
.20	-0.347	-135.	134.	-134.	134.	-669.	671.				
.40	-0.695	-269.	269.	-268.	268.	-669.	671.				
.80	-1.39	-538.	537.	-537.	535.	-669.	671.				

Table K–58. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle oldsymbol{F}_{oldsymbol{x}}^{ ext{ptot}} angle$	Unfiltered $F_{m{x}}^{ ext{ptot}}$		Filtered F_x^{ptot}		Filtered (F_x^{ptot})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	7.01	-23.0	39.4	-22.3	39.3	-586.	645.				
.10	10.3	-52.0	77.6	-51.5	77.3	-618.	670.				
.20	21.4	-102.	148.	-98.1	147.	-597.	629.				
.40	33.1	-196.	259.	-188.	253.	-552.	549.				
.80	87.1	-343.	522.	-334.	488.	-526.	502.				

Table K–59. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $oldsymbol{F_x^{ ext{ptot}}}$		Filtered F_x^{ptot}		Filtered	$\mathbf{f} \left(F_{m{x}}^{ ext{ptot}} \right)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.84	-9.37	-8.28	-9.37	-8.29	-10.5	11.0				
.10	-8.87	-9.37	-8.28	-9.35	-8.30	-4.76	5.68				
.20	-9.38	-12.0	-7.55	-11.9	-7.56	-12.7	9.10				
.40	-8.34	-12.0	-6.63	-11.0	-6.64	-6.61	4.26				
.80	-7.06	-12.0	-2.14	-9.84	-2.17	-3.47	6.11				

Table K–60. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_{m{x}}^{ ext{ptot}}$		Filtered F_x^{ptot}		Filtered (F_x^{ptot})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	0.148	-10.9	10.9	-10.9	10.9	-220.	214.				
.10	0.591	-21.8	21.7	-21.7	21.7	-223.	211.				
.20	2.37	-43.5	43.5	-43.4	43.4	-229.	205.				
.40	9.47	-87.0	87.0	-86.8	86.9	-241.	194.				
.80	37.9	-174.	175.	-174.	175.	-264.	171.				

Table K–61. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_{m{x}}^{ ext{ptot}}$		Filtered F_x^{ptot}		Filtere	$\left(oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}}\right)^{oldsymbol{*}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-38.9	-52.8	-25.3	-52.7	-25.3	-276.	272.				
.10	-38.4	-66.4	-11.6	-66.3	-11.6	-279.	268.				
.20	-36.6	-93.8	16.0	-93.7	15.9	-285.	263.				
.40	-29.6	-149.	70.4	-149.	70.3	-298.	250.				
.80	-3.16	-259.	171.	-258.	171.	-319.	217.				

Table K–62. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered F_x^{ptot}		Filtered F_x^{ptot}		Filtered	$\left(oldsymbol{F_x^{ ext{ptot}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-38.6	-52.0	-24.8	-52.0	-24.8	-269.	275.				
.10	-37.2	-63.2	-11.8	-63.2	-11.8	-260.	254.				
.20	-32.4	-81.1	13.9	-81.1	11.3	-244.	218.				
.40	-15.2	-117.	70.9	-102.	54.1	-217.	173.				
.80	34.5	-248.	402.	-113.	308.	-184.	342.				

Table K–63. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NFA										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_x^{ ext{ptot}}$		Filtered F_x^{ptot}		Filtered	$\left(oldsymbol{F_x^{ ext{ptot}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_		_	_	_	_				
.10				_	_		_				
.20				_	_		_				
.40	_			_	_	_	_				
.80	_						_				

Table K–64. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NSHIPMO											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered F_x^{ptot}		Filtered F_{x}^{ptot}		Filtered	$oxed{\left(oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}} ight)^{oldsymbol{*}}}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	_	_			_	_	_					
.10					_	_	_					
.20							_					
.40	_				_		_					
.80	_						_					

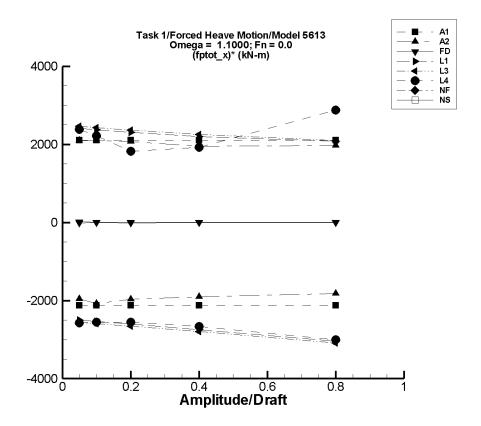


Figure K–9. Minimum and maximum of filtered $(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–65. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	$\langle F_x^{ ext{ptot}} angle$ Unfiltered $F_x^{ ext{ptot}}$		Filtered	$oldsymbol{F_x^{ ext{ptot}}}$	Filtered	Filtered $(F_x^{\text{ptot}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-1.14	-111.	107.	-107.	104.	-2.13E+03	2.10E+03				
.10	-2.28	-222.	215.	-215.	208.	-2.13E+03	2.10E+03				
.20	-4.56	-443.	429.	-430.	416.	-2.13E+03	2.10E+03				
.40	-9.13	-886.	859.	-859.	832.	-2.13E+03	2.10E+03				
.80	-18.3	-1.77E+03	1.72E+03	-1.72E+03	1.66E+03	-2.13E+03	2.10E+03				

Table K–66. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-2											
	$\langle oldsymbol{F}_{oldsymbol{x}}^{ ext{ptot}} angle$	Unfiltere	Unfiltered $F_x^{ ext{ptot}}$		$m{F}^{ ext{ptot}}_{m{x}}$	Filtered	Filtered $(F_x^{\text{ptot}})^*$					
$ (z_a/T) $	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	5.96	-94.8	114.	-91.9	111.	-1.96E+03	2.09E+03					
.10	8.18	-206.	224.	-199.	218.	-2.07E+03	2.10E+03					
.20	17.1	-390.	446.	-376.	432.	-1.97E+03	2.07E+03					
.40	25.0	-761.	833.	-737.	806.	-1.91E+03	1.95E+03					
.80	89.1	-1.41E+03	2.45E+03	-1.37E+03	1.66E+03	-1.83E+03	1.97E+03					

Table K–67. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered F_x^{ptot}		Filtered F_x^{ptot}		Filtered (F_x^{ptot})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.84	-9.37	-8.29	-9.36	-8.29	-10.4	11.0				
.10	-8.87	-9.37	-8.29	-9.21	-8.41	-3.43	4.57				
.20	-9.37	-12.0	-7.55	-11.9	-7.60	-12.8	8.89				
.40	-8.34	-11.8	-6.63	-9.59	-6.76	-3.12	3.95				
.80	-7.06	-11.4	-2.14	-9.74	-2.55	-3.35	5.64				

Table K–68. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle F_{x}^{ ext{ptot}} angle$ Unfiltered $F_{x}^{ ext{ptot}}$		$\mathbf{ed} \; F_{m{x}}^{ ext{ptot}}$	Filtered	I $oldsymbol{F_x^{ ext{ptot}}}$	Filtered $\left(oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	2.00	-124.	124.	-122.	123.	-2.48E+03	2.42E+03				
.10	8.00	-247.	250.	-244.	247.	-2.52E+03	2.39E+03				
.20	32.0	-491.	503.	-484.	499.	-2.58E+03	2.33E+03				
.40	128.	-974.	1.03E+03	-959.	1.02E+03	-2.72E+03	2.23E+03				
.80	512.	-1.92E+03	2.23E+03	-1.88E+03	2.21E+03	-2.99E+03	2.13E+03				

Table K–69. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	$\langle r_x^{ m ptot} angle$ Unfiltered $F_x^{ m ptot}$		Filtered	l $oldsymbol{F_x^{ ext{ptot}}}$	Filtered	Filtered $(F_x^{\text{ptot}})^*$				
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-37.1	-165.	88.2	-164.	86.8	-2.54E+03	2.48E+03				
.10	-31.0	-291.	216.	-288.	214.	-2.57E+03	2.45E+03				
.20	-6.97	-541.	475.	-534.	471.	-2.64E+03	2.39E+03				
.40	88.9	-1.03E+03	1.01E+03	-1.02E+03	1.00E+03	-2.77E+03	2.28E+03				
.80	471.	-2.00E+03	2.21E+03	-1.96E+03	2.19E+03	-3.04E+03	2.15E+03				

Table K–70. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle F_x^{ ext{ptot}} angle$ Unfiltered $F_x^{ ext{ptot}}$		Filtered	$oldsymbol{F_x^{ ext{ptot}}}$	Filtered	Filtered $(F_{m{x}}^{ ext{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-38.8	-168.	82.4	-166.	81.6	-2.55E+03	2.41E+03				
.10	-44.0	-300.	184.	-297.	181.	-2.53E+03	2.25E+03				
.20	-58.9	-569.	353.	-562.	313.	-2.51E+03	1.86E+03				
.40	-78.8	-1.14E+03	1.01E+03	-1.12E+03	716.	-2.60E+03	1.99E+03				
.80	-64.7	-2.44E+03	3.02E+03	-2.38E+03	2.32E+03	-2.90E+03	2.98E+03				

Table K–71. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NFA										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_x^{ ext{ptot}}$		Filtered F_x^{ptot}		Filtered	$\left(oldsymbol{F_x^{ ext{ptot}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_		_	_	_	_				
.10				_	_		_				
.20				_	_		_				
.40	_			_	_	_	_				
.80	_						_				

Table K–72. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_x^{ ext{ptot}}$		Filtered F_x^{ptot}		Filtered	$oldsymbol{\left(F_{oldsymbol{x}}^{ ext{ptot}} ight)^{oldsymbol{st}}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05				_	_	_	_				
.10						_	_				
.20						_	_				
.40						_	_				
.80						_	_				

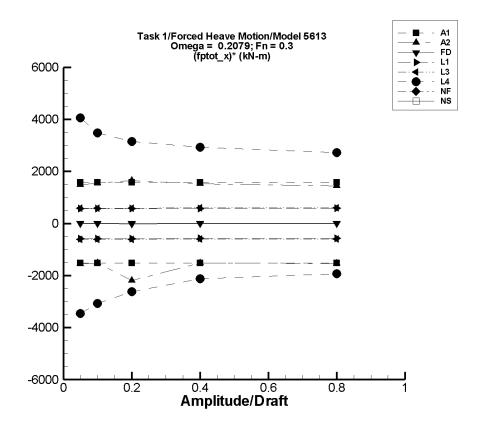


Figure K–10. Minimum and maximum of filtered $(F_x^{\rm ptot} - \langle F_x^{\rm ptot} \rangle) / (z_a/T) \, {\rm vs.} \, (z_a/T)$ for $\omega = 0.2079 \, {\rm rad/s}, \, F_n = 0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–73. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-1											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltere	Filtered	$oldsymbol{F_x^{ ext{ptot}}}$	Filtered $(F_x^{\text{ptot}})^*$							
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-0.208	-76.4	78.6	-76.4	78.5	-1.52E+03	1.57E+03					
.10	-0.416	-153.	157.	-153.	157.	-1.52E+03	1.57E+03					
.20	-0.833	-306.	314.	-305.	314.	-1.52E+03	1.57E+03					
.40	-1.67	-611.	629.	-611.	628.	-1.52E+03	1.57E+03					
.80	-3.33	-1.22E+03	1.26E+03	-1.22E+03	1.26E+03	-1.52E+03	1.57E+03					

Table K–74. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)

	AEGIR-2											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{ ext{ptot}}$	Filtered	$oldsymbol{F_x^{ ext{ptot}}}$	Filtered $(F_{m{x}}^{ ext{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	6.89	-71.2	81.1	-70.8	81.1	-1.55E+03	1.48E+03					
.10	10.1	-144.	165.	-142.	165.	-1.52E+03	1.55E+03					
.20	12.0	-1.85E+03	324.	-428.	342.	-2.20E+03	1.65E+03					
.40	31.9	-584.	646.	-575.	644.	-1.52E+03	1.53E+03					
.80	86.8	-1.15E+03	2.10E+03	-1.14E+03	1.24E+03	-1.53E+03	1.44E+03					

Table K–75. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_x^{ m ptot}$		Filtered F_x^{ptot}		Filtered $(F_x^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.84	-9.37	-8.29	-9.37	-8.29	-10.6	11.0				
.10	-8.87	-9.37	-8.28	-9.36	-8.29	-4.95	5.75				
.20	-9.37	-12.0	-7.55	-11.9	-7.55	-12.9	9.07				
.40	-8.36	-12.0	-6.62	-11.7	-6.63	-8.26	4.33				
.80	-7.06	-12.0	-2.14	-10.7	-2.15	-4.58	6.14				

Table K–76. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $oldsymbol{F_x^{ ext{ptot}}}$		Filtered $F_x^{ m ptot}$		Filtered $(F_x^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-41.5	-70.1	-12.7	-70.1	-12.8	-572.	574.				
.10	-41.2	-98.4	16.3	-98.4	16.3	-572.	575.				
.20	-40.3	-154.	75.2	-154.	75.1	-570.	577.				
.40	-36.4	-263.	196.	-263.	196.	-567.	581.				
.80	-21.0	-470.	450.	-470.	450.	-561.	589.				

Table K–77. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfilte	$oxed{red} oxed{F_{oldsymbol{x}}^{ ext{ptot}}}$	Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{ptot}}$	Filtered	$(oldsymbol{F_x^{ ext{ptot}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-80.6	-111.	-50.6	-111.	-50.6	-599.	599.				
.10	-80.3	-140.	-20.2	-140.	-20.3	-598.	601.				
.20	-79.3	-199.	41.1	-199.	41.0	-597.	602.				
.40	-75.6	-313.	167.	-313.	166.	-594.	605.				
.80	-62.1	-533.	429.	-533.	429.	-588.	614.				

Table K–78. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{ ext{ptot}}$	Filte	$\overline{red}\ F_{m{x}}^{ptot}$	Filtered $(oldsymbol{F_x^{ ext{ptot}}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-69.4	-307.	130.	-246.	129.	-3.53E+03	3.98E+03					
.10	-7.52	-364.	333.	-322.	332.	-3.15E+03	3.40E+03					
.20	134.	-466.	752.	-403.	751.	-2.69E+03	3.08E+03					
.40	362.	-795.	1.54E+03	-509.	1.52E+03	-2.18E+03	2.88E+03					
.80	763.	-1.74E+03	3.28E+03	-811.	2.90E+03	-1.97E+03	2.68E+03					

Table K–79. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NFA										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfilte	$oxed{red} oxed{F_x^{ ext{ptot}}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{ ext{ptot}}$	Filtered	$\left(oldsymbol{F_x^{ ext{ptot}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_		_	_	_	_				
.10				_	_		_				
.20				_	_		_				
.40	_			_	_	_	_				
.80	_						_				

Table K–80. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfilte	$oxed{red} oxed{F_x^{ ext{ptot}}}$	Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{ptot}}$	Filtered	$oxed{\left(oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}} ight)^{oldsymbol{*}}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_	_	_					
.10				_	_	_	_				
.20					_		_				
.40				_	_	_	_				
.80					_		_				

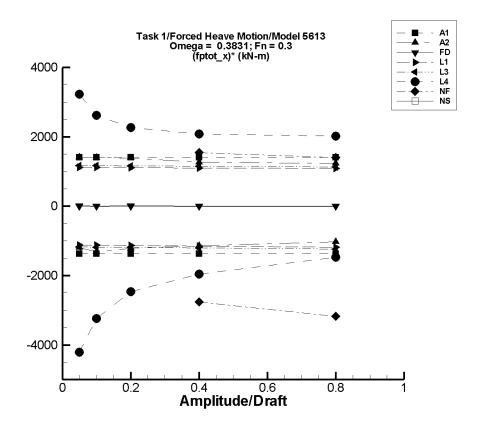


Figure K–11. Minimum and maximum of filtered $(F_x^{\rm ptot} - \langle F_x^{\rm ptot} \rangle) / (z_a/T) \, {\rm vs.} \, (z_a/T)$ for $\omega = 0.3831 \, {\rm rad/s}, \, F_n = 0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–81. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-1											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_{m{x}}^{ ext{ptot}}$		Filtered	$oldsymbol{F_x^{ ext{ptot}}}$	Filtered $(F_x^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	4.80E-02	-68.9	70.4	-68.6	70.5	-1.37E+03	1.41E+03					
.10	9.60E-02	-138.	141.	-137.	141.	-1.37E+03	1.41E+03					
.20	0.192	-275.	282.	-274.	282.	-1.37E+03	1.41E+03					
.40	0.384	-551.	563.	-548.	564.	-1.37E+03	1.41E+03					
.80	0.768	-1.10E+03	1.13E+03	-1.10E+03	1.13E+03	-1.37E+03	1.41E+03					

Table K–82. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-2											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfilt	$\overline{m{ered} \; m{F}^{ ext{ptot}}_{m{x}}}$	Filter	$\overline{red}\ F_{m{x}}^{ ext{ptot}}$	Filtered $\left(oldsymbol{F_{x}^{ ext{ptot}}} ight)^{*}$						
(z_a/T)	Mean	Min.	Min. Max.		Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	7.14	-52.7	77.4	-52.5	77.4	-1.19E+03	1.41E+03					
.10	10.6	-122.	150.	-121.	150.	-1.32E+03	1.40E+03					
.20	21.9	-223.	299.	-221.	299.	-1.22E+03	1.38E+03					
.40	34.2	-423.	538.	-422.	538.	-1.14E+03	1.26E+03					
.80	89.2	-734.	1.08E+03	-731.	1.08E+03	-1.03E+03	1.23E+03					

Table K–83. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_{x}^{ m ptot}$		Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{ptot}}$	Filtered (F_x^{ptot})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.84	-9.37	-8.28	-9.37	-8.29	-10.5	11.0				
.10	-8.87	-9.37	-8.28	-9.35	-8.30	-4.76	5.68				
.20	-9.38	-12.0	-7.55	-11.9	-7.56	-12.7	9.10				
.40	-8.34	-12.0	-6.63	-11.0	-6.64	-6.61	4.26				
.80	-7.06	-12.0	-2.14	-9.84	-2.17	-3.47	6.11				

Table K–84. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle F_x^{ ext{ptot}} angle$ Unfiltered $F_x^{ ext{ptot}}$		Filtered $F_{x}^{ m ptot}$		Filtered	$\left(oldsymbol{F_x^{ ext{ptot}}} ight)^{oldsymbol{*}}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-41.2	-97.6	14.8	-97.5	14.7	-1.13E+03	1.12E+03				
.10	-40.3	-153.	71.4	-153.	71.2	-1.13E+03	1.12E+03				
.20	-36.6	-264.	186.	-264.	185.	-1.14E+03	1.11E+03				
.40	-21.9	-483.	418.	-482.	418.	-1.15E+03	1.10E+03				
.80	36.9	-912.	905.	-911.	904.	-1.18E+03	1.08E+03				

Table K–85. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-3											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfilte	$oxed{red} oxed{F_{oldsymbol{x}}^{ ext{ptot}}}$	Filtere	ed $oldsymbol{F_x^{ ext{ptot}}}$	Filtered $(F_x^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-80.3	-139.	-21.6	-139.	-21.7	-1.18E+03	1.17E+03					
.10	-79.4	-198.	37.6	-198.	37.5	-1.18E+03	1.17E+03					
.20	-75.6	-314.	157.	-313.	157.	-1.19E+03	1.16E+03					
.40	-61.1	-544.	400.	-544.	399.	-1.21E+03	1.15E+03					
.80	-4.16	-996.	900.	-995.	899.	-1.24E+03	1.13E+03					

Table K–86. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{ ext{ptot}}$	Filte	$\overline{red}\ F_{m{x}}^{ptot}$	Filtered $(F_{x}^{\text{ptot}})^{*}$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-72.7	-323.	89.8	-282.	89.5	-4.20E+03	3.24E+03					
.10	-11.5	-403.	252.	-334.	252.	-3.23E+03	2.63E+03					
.20	120.	-493.	580.	-372.	574.	-2.46E+03	2.27E+03					
.40	303.	-1.08E+03	1.16E+03	-478.	1.14E+03	-1.95E+03	2.09E+03					
.80	546.	-2.61E+03	2.61E+03	-628.	2.17E+03	-1.47E+03	2.03E+03					

Table K–87. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NFA										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered	$oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}}$	Filtered	$oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}}$	Filtered $(F_x^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05							_				
.10											
.20	-480.	-996.	-107.	-989.	-113.	-2.55E+03	1.83E+03				
.40	-629.	-1.75E+03	7.46	-1.74E+03	-12.3	-2.77E+03	1.54E+03				
.80	-1.10E+03	-3.69E+03	23.4	-3.65E+03	13.5	-3.18E+03	1.40E+03				

Table K–88. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered F_x^{ptot}		Filtered $F_{x}^{ ext{ptot}}$		Filtered	$oxed{\left(oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}} ight)^{oldsymbol{*}}}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	_				_	_	_					
.10					_	_	_					
.20							_					
.40				_	_	_	_					
.80							_					

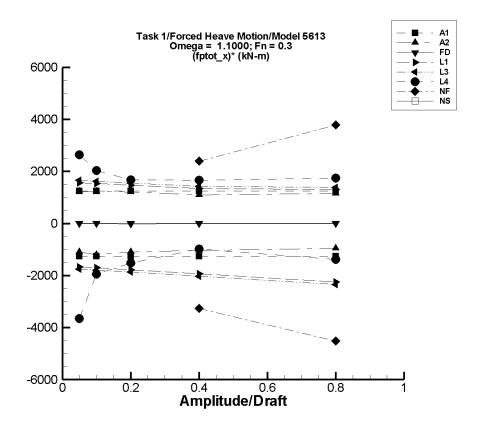


Figure K–12. Minimum and maximum of filtered $(F_x^{\rm ptot} - \langle F_x^{\rm ptot} \rangle) / (z_a/T) \, {\rm vs.} \, (z_a/T)$ for $\omega = 1.1000 \, {\rm rad/s}, \, F_n = 0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–89. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-1											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{ ext{ptot}}$	Filtered	$oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}}$	Filtered $(F_x^{\text{ptot}})^*$						
(z_a/T)	Mean	Min. Max.		Min.	Min. Max.		Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-1.92	-66.8	67.9	-64.8	60.3	-1.26E+03	1.25E+03					
.10	-3.83	-134.	136.	-130.	121.	-1.26E+03	1.25E+03					
.20	-7.67	-267.	272.	-259.	241.	-1.26E+03	1.25E+03					
.40	-15.3	-534.	543.	-518.	483.	-1.26E+03	1.25E+03					
.80	-30.7	-1.07E+03	1.09E+03	-1.04E+03	966.	-1.26E+03	1.25E+03					

Table K–90. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-2											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfilt	$\overline{m{ered} \; m{F}^{ ext{ptot}}_{m{x}}}$	Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{ptot}}$	Filtered $\left(oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}} ight)^{oldsymbol{*}}$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	5.19	-50.8	74.5	-49.3	66.7	-1.09E+03	1.23E+03					
.10	6.63	-118.	145.	-114.	131.	-1.21E+03	1.24E+03					
.20	14.0	-214.	288.	-206.	256.	-1.10E+03	1.21E+03					
.40	18.8	-409.	517.	-396.	458.	-1.04E+03	1.10E+03					
.80	76.7	-718.	1.86E+03	-690.	997.	-959.	1.15E+03					

Table K–91. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_x^{ m ptot}$		Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{ptot}}$	Filtered	$(oldsymbol{F_x^{ ext{ptot}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.84	-9.37	-8.29	-9.36	-8.29	-10.4	11.0				
.10	-8.87	-9.37	-8.29	-9.21	-8.41	-3.43	4.57				
.20	-9.37	-12.0	-7.55	-11.9	-7.60	-12.8	8.89				
.40	-8.34	-11.8	-6.63	-9.59	-6.76	-3.12	3.95				
.80	-7.06	-11.4	-2.14	-9.74	-2.55	-3.35	5.64				

Table K–92. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	$\langle F_x^{ ext{ptot}} angle \hspace{0.5cm} ext{Unfiltered} \hspace{0.2cm} F_x^{ ext{ptot}}$			I $F_{m{x}}^{ ext{ptot}}$	Filtered $\left(oldsymbol{F_{oldsymbol{x}}^{ ext{ptot}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-40.0	-124.	40.0	-123.	39.2	-1.65E+03	1.58E+03					
.10	-35.2	-206.	121.	-204.	120.	-1.69E+03	1.55E+03					
.20	-16.3	-374.	282.	-369.	280.	-1.76E+03	1.48E+03					
.40	59.3	-717.	612.	-704.	608.	-1.91E+03	1.37E+03					
.80	362.	-1.44E+03	1.46E+03	-1.40E+03	1.45E+03	-2.21E+03	1.36E+03					

Table K–93. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-3											
	$ \langle F_x^{ ext{ptot}} angle ext{ Unfiltered } F_x^{ ext{ptot}}$			Filtered	$oldsymbol{F_x^{ ext{ptot}}}$	Filtered	Filtered $(F_x^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-79.0	-167.	5.28	-166.	4.40	-1.74E+03	1.67E+03					
.10	-74.2	-254.	90.6	-252.	89.0	-1.77E+03	1.63E+03					
.20	-55.3	-430.	260.	-425.	258.	-1.85E+03	1.57E+03					
.40	20.2	-793.	607.	-779.	603.	-2.00E+03	1.46E+03					
.80	321.	-1.56E+03	1.49E+03	-1.52E+03	1.47E+03	-2.30E+03	1.44E+03					

Table K–94. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{ ext{ptot}}$	Filte	$\overline{red}\ F_{m{x}}^{ ext{ptot}}$	Filtered $(F_{m{x}}^{ ext{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-73.7	-364.	59.6	-260.	54.4	-3.73E+03	2.56E+03					
.10	-9.45	-381.	197.	-210.	188.	-2.00E+03	1.98E+03					
.20	116.	-415.	456.	-194.	443.	-1.55E+03	1.64E+03					
.40	329.	-984.	1.11E+03	-64.9	996.	-986.	1.67E+03					
.80	923.	-2.14E+03	2.96E+03	-159.	2.34E+03	-1.35E+03	1.77E+03					

Table K–95. Minimum and Maximum of Variables F_x^{ptot} and $(F_x^{\text{ptot}})^* = (F_x^{\text{ptot}} - \langle F_x^{\text{ptot}} \rangle) / (z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)

	NFA											
	$\langle oldsymbol{F_x^{ ext{ptot}}} angle$	Unfiltered $F_x^{ m ptot}$		Filtered	$oldsymbol{F_x^{ ext{ptot}}}$	Filtered	Filtered $(F_x^{\text{ptot}})^*$					
(z_a/T)	Mean	Mean Min.		Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	_		_		_		_					
.10	<u> </u>		_		_							
.20	-365.	-1.02E+03	190.	-972.	159.	-3.03E+03	2.62E+03					
.40	-379.	-1.85E+03	648.	-1.69E+03	579.	-3.27E+03	2.40E+03					
.80	-570.	-4.22E+03	3.13E+03	-4.19E+03	2.45E+03	-4.53E+03	3.78E+03					

Table K–96. Minimum and Maximum of Variables $F_x^{\rm ptot}$ and $(F_x^{\rm ptot})^*=(F_x^{\rm ptot}-\langle F_x^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle oldsymbol{F}_{oldsymbol{x}}^{ ext{ptot}} angle$	Unfiltered $oldsymbol{F_x^{ ext{ptot}}}$		Filtered $oldsymbol{F_x^{ ext{ptot}}}$		Filtered (F_x^{ptot})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_	_	_	_	_	_				
.10						_	_				
.20	—					_	_				
.40	_	_	_	_	_	_	_				
.80	_	_	_	_	_	_	_				

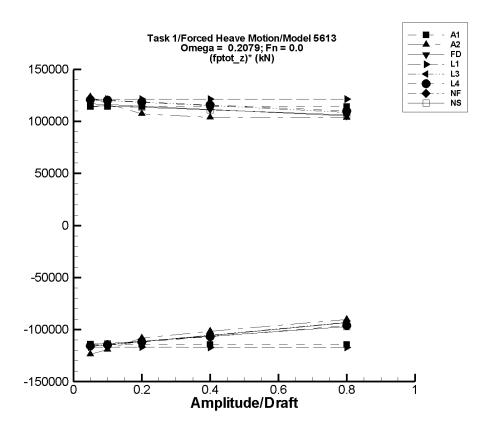


Figure K–13. Minimum and maximum of filtered $(F_z^{\rm ptot} - \langle F_z^{\rm ptot} \rangle) / (z_a/T) \, {\rm vs.} \, (z_a/T)$ for $\omega = 0.2079 \, {\rm rad/s}, \, F_n = 0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–97. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle F_z^{ m ptot} angle$	Unfiltere	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered F_z^{ptot}		Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.02E+04	9.16E+04	8.02E+04	9.16E+04	-1.14E+05	1.14E+05				
.10	8.59E+04	7.45E+04	9.73E+04	7.45E+04	9.73E+04	-1.14E+05	1.14E+05				
.20	8.59E+04	6.31E+04	1.09E+05	6.30E+04	1.09E+05	-1.14E+05	1.14E+05				
.40	8.59E+04	4.02E+04	1.32E+05	4.01E+04	1.32E+05	-1.14E+05	1.14E+05				
.80	8.59E+04	-5.50E+03	1.77E+05	-5.64E+03	1.77E+05	-1.14E+05	1.14E+05				

Table K–98. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

AEGIR-2										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$			Filtered F_z^{ptot}		Filtered $(F_z^{\text{ptot}})^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	8.59E+04	7.97E+04	9.21E+04	7.97E+04	9.21E+04	-1.24E+05	1.23E+05			
.10	8.58E+04	7.39E+04	9.75E+04	7.39E+04	9.75E+04	-1.19E+05	1.17E+05			
.20	8.57E+04	6.40E+04	1.07E+05	6.40E+04	1.07E+05	-1.08E+05	1.07E+05			
.40	8.57E+04	4.51E+04	1.27E+05	4.51E+04	1.27E+05	-1.02E+05	1.04E+05			
.80	8.95E+04	1.73E+04	1.72E+05	1.71E+04	1.72E+05	-9.04E+04	1.03E+05			

Table K–99. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

FREDYN										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $F_z^{ ext{ptot}}$		$ \qquad \qquad \mathbf{Filtered} \ \ \left(\boldsymbol{F_{z}^{\mathrm{ptot}}} \right)^{*} $				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	8.53E+04	7.95E+04	9.11E+04	7.95E+04	9.11E+04	-1.16E+05	1.17E+05			
.10	8.53E+04	7.38E+04	9.69E+04	7.38E+04	9.69E+04	-1.15E+05	1.16E+05			
.20	8.55E+04	6.32E+04	1.08E+05	6.32E+04	1.08E+05	-1.12E+05	1.15E+05			
.40	8.63E+04	4.39E+04	1.31E+05	4.40E+04	1.31E+05	-1.06E+05	1.12E+05			
.80	8.96E+04	1.49E+04	1.74E+05	1.49E+04	1.74E+05	-9.33E+04	1.05E+05			

Table K–100. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

LAMP-1										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfiltered $F_z^{ ext{ptot}}$ Min. Max.		Filtered $F_z^{ ext{ptot}}$		Filtered $(F_z^{\text{ptot}})^*$				
(z_a/T)	Mean			Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	8.56E+04	7.96E+04	9.15E+04	7.96E+04	9.15E+04	-1.19E+05	1.19E+05			
.10	8.56E+04	7.36E+04	9.75E+04	7.36E+04	9.75E+04	-1.19E+05	1.19E+05			
.20	8.56E+04	6.17E+04	1.09E+05	6.17E+04	1.09E+05	-1.19E+05	1.19E+05			
.40	8.56E+04	3.79E+04	1.33E+05	3.79E+04	1.33E+05	-1.19E+05	1.19E+05			
.80	8.57E+04	-9.84E+03	1.81E+05	-9.80E+03	1.81E+05	-1.19E+05	1.19E+05			

Table K–101. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

LAMP-3										
	$\langle F_z^{ m ptot} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtere	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	8.55E+04	7.96E+04	9.14E+04	7.96E+04	9.14E+04	-1.18E+05	1.18E+05			
.10	8.56E+04	7.39E+04	9.73E+04	7.39E+04	9.73E+04	-1.17E+05	1.18E+05			
.20	8.57E+04	6.30E+04	1.09E+05	6.30E+04	1.09E+05	-1.14E+05	1.16E+05			
.40	8.65E+04	4.34E+04	1.32E+05	4.34E+04	1.32E+05	-1.08E+05	1.13E+05			
.80	8.98E+04	1.37E+04	1.75E+05	1.37E+04	1.75E+05	-9.52E+04	1.07E+05			

Table K–102. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

LAMP-4										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered F_z^{ptot}		Filtered $(F_{z}^{\text{ptot}})^{*}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	8.55E+04	7.96E+04	9.15E+04	7.96E+04	9.14E+04	-1.18E+05	1.19E+05			
.10	8.56E+04	7.39E+04	9.74E+04	7.39E+04	9.73E+04	-1.17E+05	1.18E+05			
.20	8.57E+04	6.29E+04	1.09E+05	6.29E+04	1.09E+05	-1.14E+05	1.17E+05			
.40	8.64E+04	4.29E+04	1.32E+05	4.29E+04	1.32E+05	-1.09E+05	1.14E+05			
.80	8.94E+04	1.08E+04	1.76E+05	1.08E+04	1.76E+05	-9.82E+04	1.08E+05			

Table K–103. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

NFA									
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfiltered F_z^{ptot}		Filtered F_z^{ptot}		Filtered	$(oldsymbol{F_z^{ ext{ptot}}})^*$		
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)		
.05		_	_	_	_	_	_		
.10				_	_		_		
.20			_	_	_	_	_		
.40	_		_	_	_	_	_		
.80	_				_		_		

Table K–104. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

NSHIPMO										
	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$		Filtered	d $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $\left(oldsymbol{F_z^{ ext{ptot}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	8.59E+04	8.01E+04	9.17E+04	8.02E+04	9.16E+04	-1.14E+05	1.14E+05			
.10	8.59E+04	7.45E+04	9.75E+04	7.46E+04	9.74E+04	-1.13E+05	1.15E+05			
.20	8.61E+04	6.36E+04	1.09E+05	6.38E+04	1.09E+05	-1.11E+05	1.13E+05			
.40	8.68E+04	4.38E+04	1.32E+05	4.42E+04	1.31E+05	-1.07E+05	1.11E+05			
.80	8.98E+04	1.15E+04	1.75E+05	1.20E+04	1.75E+05	-9.72E+04	1.06E+05			

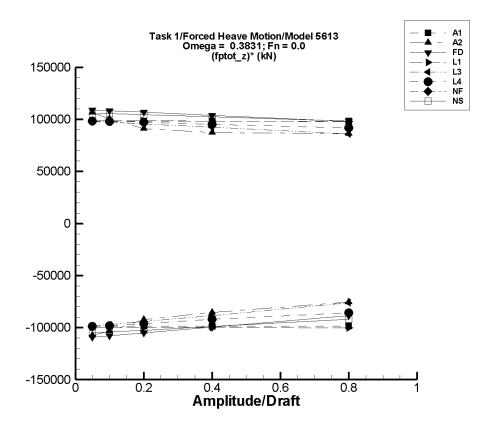


Figure K–14. Minimum and maximum of filtered $(F_z^{\rm ptot} - \langle F_z^{\rm ptot} \rangle) / (z_a/T) \, {\rm vs.} \, (z_a/T)$ for $\omega = 0.3831 \, {\rm rad/s}, \, F_n = 0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–105. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$				$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.09E+04	9.08E+04	8.10E+04	9.08E+04	-9.85E+04	9.81E+04				
.10	8.59E+04	7.60E+04	9.57E+04	7.61E+04	9.57E+04	-9.85E+04	9.81E+04				
.20	8.59E+04	6.61E+04	1.06E+05	6.62E+04	1.06E+05	-9.85E+04	9.81E+04				
.40	8.59E+04	4.62E+04	1.25E+05	4.65E+04	1.25E+05	-9.85E+04	9.81E+04				
.80	8.60E+04	6.51E+03	1.65E+05	7.16E+03	1.64E+05	-9.85E+04	9.81E+04				

Table K–106. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$			$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_{z}^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.05E+04	9.12E+04	8.05E+04	9.12E+04	-1.08E+05	1.07E+05				
.10	8.58E+04	7.55E+04	9.59E+04	7.55E+04	9.59E+04	-1.03E+05	1.00E+05				
.20	8.57E+04	6.71E+04	1.04E+05	6.72E+04	1.04E+05	-9.23E+04	9.09E+04				
.40	8.57E+04	5.11E+04	1.21E+05	5.15E+04	1.21E+05	-8.55E+04	8.73E+04				
.80	8.95E+04	2.80E+04	1.59E+05	2.91E+04	1.59E+05	-7.55E+04	8.63E+04				

Table K–107. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle F_z^{ m ptot} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{ptot}}$	Filtere	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.53E+04	7.98E+04	9.08E+04	7.98E+04	9.07E+04	-1.09E+05	1.09E+05				
.10	8.53E+04	7.45E+04	9.62E+04	7.46E+04	9.62E+04	-1.08E+05	1.09E+05				
.20	8.55E+04	6.45E+04	1.07E+05	6.46E+04	1.07E+05	-1.05E+05	1.07E+05				
.40	8.63E+04	4.64E+04	1.28E+05	4.66E+04	1.28E+05	-9.93E+04	1.04E+05				
.80	8.96E+04	1.86E+04	1.68E+05	1.88E+04	1.68E+05	-8.85E+04	9.82E+04				

Table K–108. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	$\langle F_z^{ m ptot} angle \hspace{0.5cm} ext{Unfiltered} \hspace{0.5cm} F_z^{ m ptot}$			$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.56E+04	8.06E+04	9.05E+04	8.06E+04	9.05E+04	-9.93E+04	9.92E+04				
.10	8.56E+04	7.56E+04	9.55E+04	7.56E+04	9.55E+04	-9.93E+04	9.92E+04				
.20	8.56E+04	6.57E+04	1.05E+05	6.57E+04	1.05E+05	-9.94E+04	9.91E+04				
.40	8.57E+04	4.58E+04	1.25E+05	4.59E+04	1.25E+05	-9.96E+04	9.89E+04				
.80	8.61E+04	6.05E+03	1.65E+05	6.16E+03	1.65E+05	-9.99E+04	9.86E+04				

Table K–109. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$			Filtere	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.55E+04	8.06E+04	9.05E+04	8.06E+04	9.05E+04	-9.83E+04	9.86E+04				
.10	8.56E+04	7.59E+04	9.54E+04	7.59E+04	9.53E+04	-9.69E+04	9.78E+04				
.20	8.58E+04	6.70E+04	1.05E+05	6.70E+04	1.05E+05	-9.38E+04	9.62E+04				
.40	8.66E+04	5.13E+04	1.24E+05	5.13E+04	1.24E+05	-8.82E+04	9.29E+04				
.80	9.01E+04	2.94E+04	1.59E+05	2.94E+04	1.59E+05	-7.59E+04	8.63E+04				

Table K–110. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.55E+04	8.06E+04	9.05E+04	8.06E+04	9.05E+04	-9.86E+04	9.89E+04				
.10	8.55E+04	7.58E+04	9.54E+04	7.58E+04	9.54E+04	-9.77E+04	9.86E+04				
.20	8.57E+04	6.66E+04	1.05E+05	6.66E+04	1.05E+05	-9.56E+04	9.77E+04				
.40	8.63E+04	4.96E+04	1.25E+05	4.96E+04	1.25E+05	-9.17E+04	9.58E+04				
.80	8.85E+04	1.99E+04	1.62E+05	2.00E+04	1.62E+05	-8.56E+04	9.21E+04				

Table K–111. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NFA										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfiltered F_z^{ptot}		Filtered F_z^{ptot}		Filtered	$(oldsymbol{F_z^{ ext{ptot}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_	_	_	_	_	_				
.10				_	_		_				
.20			_	_	_	_	_				
.40	_		_	_	_	_	_				
.80	_				_		_				

Table K–112. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle F_z^{ m ptot} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	d $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.06E+04	9.12E+04	8.06E+04	9.11E+04	-1.05E+05	1.05E+05				
.10	8.59E+04	7.54E+04	9.66E+04	7.55E+04	9.65E+04	-1.04E+05	1.06E+05				
.20	8.60E+04	6.53E+04	1.07E+05	6.55E+04	1.07E+05	-1.03E+05	1.04E+05				
.40	8.67E+04	4.68E+04	1.28E+05	4.72E+04	1.28E+05	-9.88E+04	1.03E+05				
.80	8.92E+04	1.52E+04	1.69E+05	1.57E+04	1.68E+05	-9.19E+04	9.83E+04				

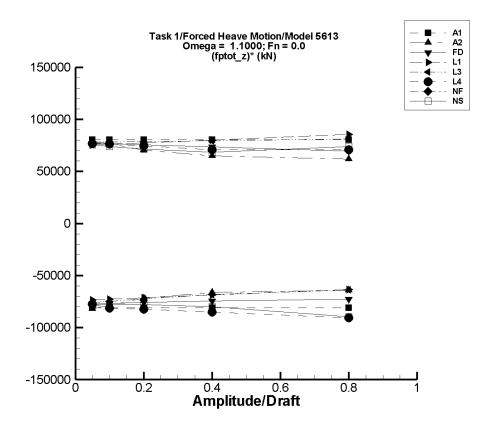


Figure K–15. Minimum and maximum of filtered $(F_z^{\rm ptot} - \langle F_z^{\rm ptot} \rangle) / (z_a/T) \, {\rm vs.} \, (z_a/T)$ for $\omega = 1.1000 \, {\rm rad/s}, \, F_n = 0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–113. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$			Filtered	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.14E+04	9.00E+04	8.18E+04	8.99E+04	-8.10E+04	8.05E+04				
.10	8.59E+04	7.70E+04	9.42E+04	7.78E+04	9.39E+04	-8.10E+04	8.05E+04				
.20	8.59E+04	6.80E+04	1.02E+05	6.97E+04	1.02E+05	-8.10E+04	8.05E+04				
.40	8.59E+04	5.02E+04	1.19E+05	5.35E+04	1.18E+05	-8.10E+04	8.05E+04				
.80	8.58E+04	1.45E+04	1.52E+05	2.10E+04	1.50E+05	-8.10E+04	8.05E+04				

Table K–114. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	d $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.14E+04	9.00E+04	8.18E+04	8.98E+04	-8.19E+04	7.92E+04				
.10	8.58E+04	7.73E+04	9.38E+04	7.79E+04	9.35E+04	-7.87E+04	7.67E+04				
.20	8.56E+04	6.97E+04	1.00E+05	7.13E+04	9.98E+04	-7.16E+04	7.06E+04				
.40	8.57E+04	5.61E+04	1.12E+05	5.92E+04	1.12E+05	-6.62E+04	6.49E+04				
.80	8.94E+04	3.08E+04	1.42E+05	3.82E+04	1.39E+05	-6.40E+04	6.20E+04				

Table K–115. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle F_z^{ m ptot} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{ptot}}$	Filtered	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.53E+04	8.13E+04	8.92E+04	8.14E+04	8.91E+04	-7.70E+04	7.71E+04				
.10	8.53E+04	7.74E+04	9.32E+04	7.76E+04	9.30E+04	-7.67E+04	7.66E+04				
.20	8.55E+04	6.98E+04	1.01E+05	7.03E+04	1.01E+05	-7.59E+04	7.55E+04				
.40	8.63E+04	5.54E+04	1.17E+05	5.65E+04	1.16E+05	-7.45E+04	7.34E+04				
.80	8.96E+04	2.83E+04	1.47E+05	3.11E+04	1.45E+05	-7.31E+04	6.91E+04				

Table K–116. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.55E+04	8.18E+04	8.93E+04	8.19E+04	8.93E+04	-7.38E+04	7.51E+04				
.10	8.55E+04	7.81E+04	9.32E+04	7.82E+04	9.31E+04	-7.31E+04	7.58E+04				
.20	8.53E+04	7.08E+04	1.01E+05	7.10E+04	1.01E+05	-7.18E+04	7.72E+04				
.40	8.46E+04	5.67E+04	1.17E+05	5.70E+04	1.17E+05	-6.91E+04	7.99E+04				
.80	8.18E+04	3.05E+04	1.51E+05	3.08E+04	1.50E+05	-6.37E+04	8.53E+04				

Table K–117. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-3											
	$\langle F_z^{ m ptot} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{ptot}}$	Filtered	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.55E+04	8.17E+04	8.94E+04	8.17E+04	8.94E+04	-7.62E+04	7.77E+04					
.10	8.55E+04	7.79E+04	9.34E+04	7.80E+04	9.33E+04	-7.50E+04	7.79E+04					
.20	8.55E+04	7.08E+04	1.01E+05	7.10E+04	1.01E+05	-7.27E+04	7.82E+04					
.40	8.55E+04	5.78E+04	1.18E+05	5.81E+04	1.17E+05	-6.87E+04	7.90E+04					
.80	8.58E+04	3.33E+04	1.51E+05	3.42E+04	1.50E+05	-6.46E+04	8.05E+04					

Table K–118. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-4											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	d $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $(F_{m{z}}^{ ext{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.55E+04	8.15E+04	8.94E+04	8.16E+04	8.93E+04	-7.77E+04	7.64E+04					
.10	8.54E+04	7.69E+04	9.31E+04	7.73E+04	9.30E+04	-8.13E+04	7.62E+04					
.20	8.51E+04	6.79E+04	1.00E+05	6.86E+04	1.00E+05	-8.23E+04	7.48E+04					
.40	8.44E+04	4.96E+04	1.13E+05	5.06E+04	1.13E+05	-8.45E+04	7.13E+04					
.80	8.33E+04	9.20E+03	1.49E+05	1.17E+04	1.41E+05	-8.96E+04	7.19E+04					

Table K–119. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NFA										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfiltered F_z^{ptot}		Filtered F_z^{ptot}		Filtered	$(oldsymbol{F_z^{ ext{ptot}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_	_	_	_	_	_				
.10							_				
.20							_				
.40	_	_	_	_	_	_	_				
.80	_	_	_	_	_	_	_				

Table K–120. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NSHIPMO											
	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$			Filtered	d $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $(F_z^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.58E+04	8.19E+04	8.97E+04	8.20E+04	8.96E+04	-7.75E+04	7.57E+04					
.10	8.58E+04	7.80E+04	9.32E+04	7.80E+04	9.32E+04	-7.75E+04	7.39E+04					
.20	8.55E+04	6.97E+04	1.00E+05	7.00E+04	9.98E+04	-7.78E+04	7.15E+04					
.40	8.51E+04	5.26E+04	1.13E+05	5.31E+04	1.13E+05	-7.99E+04	6.85E+04					
.80	8.49E+04	1.17E+04	1.53E+05	1.31E+04	1.44E+05	-8.97E+04	7.38E+04					

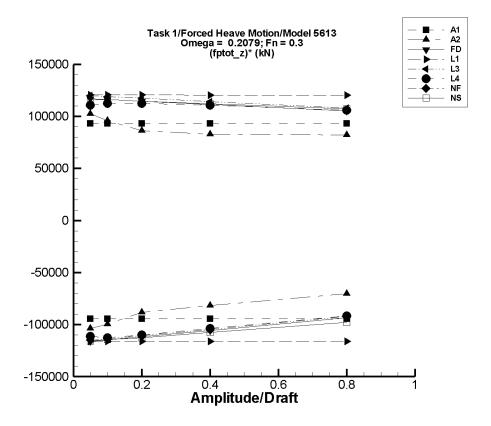


Figure K–16. Minimum and maximum of filtered $(F_z^{\rm ptot} - \langle F_z^{\rm ptot} \rangle) / (z_a/T) \, {\rm vs.} \, (z_a/T)$ for $\omega = 0.2079 \, {\rm rad/s}, \, F_n = 0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–121. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-1											
	$\langle F_z^{ m ptot} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{ptot}}$	Filtere	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	8.12E+04	9.06E+04	8.12E+04	9.06E+04	-9.45E+04	9.31E+04					
.10	8.59E+04	7.65E+04	9.52E+04	7.65E+04	9.52E+04	-9.45E+04	9.31E+04					
.20	8.59E+04	6.71E+04	1.05E+05	6.70E+04	1.05E+05	-9.45E+04	9.31E+04					
.40	8.60E+04	4.82E+04	1.23E+05	4.82E+04	1.23E+05	-9.45E+04	9.31E+04					
.80	8.60E+04	1.05E+04	1.61E+05	1.04E+04	1.60E+05	-9.45E+04	9.31E+04					

Table K–122. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-2											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	d $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $(F_z^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	8.07E+04	9.10E+04	8.07E+04	9.10E+04	-1.04E+05	1.02E+05					
.10	8.58E+04	7.59E+04	9.54E+04	7.59E+04	9.54E+04	-9.95E+04	9.57E+04					
.20	8.57E+04	6.80E+04	1.03E+05	6.80E+04	1.03E+05	-8.84E+04	8.61E+04					
.40	8.58E+04	5.32E+04	1.19E+05	5.31E+04	1.19E+05	-8.16E+04	8.28E+04					
.80	8.96E+04	3.29E+04	1.55E+05	3.32E+04	1.55E+05	-7.05E+04	8.22E+04					

Table K–123. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	FREDYN											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_{z}^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.53E+04	7.95E+04	9.11E+04	7.95E+04	9.11E+04	-1.16E+05	1.17E+05					
.10	8.53E+04	7.38E+04	9.69E+04	7.38E+04	9.69E+04	-1.15E+05	1.16E+05					
.20	8.55E+04	6.32E+04	1.08E+05	6.32E+04	1.08E+05	-1.12E+05	1.15E+05					
.40	8.63E+04	4.39E+04	1.31E+05	4.40E+04	1.31E+05	-1.06E+05	1.12E+05					
.80	8.96E+04	1.49E+04	1.74E+05	1.49E+04	1.74E+05	-9.33E+04	1.05E+05					

Table K–124. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfiltere	$\mathbf{ed} \; F_{z}^{ ext{ptot}}$	Filtered	l $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $(F_z^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.18E+04	7.59E+04	8.77E+04	7.59E+04	8.77E+04	-1.18E+05	1.18E+05					
.10	8.18E+04	7.00E+04	9.37E+04	7.00E+04	9.37E+04	-1.18E+05	1.18E+05					
.20	8.18E+04	5.82E+04	1.05E+05	5.82E+04	1.05E+05	-1.18E+05	1.18E+05					
.40	8.19E+04	3.45E+04	1.29E+05	3.45E+04	1.29E+05	-1.18E+05	1.18E+05					
.80	8.20E+04	-1.29E+04	1.77E+05	-1.28E+04	1.76E+05	-1.18E+05	1.18E+05					

Table K–125. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-3											
	$\langle F_z^{ m ptot} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.18E+04	7.59E+04	8.77E+04	7.59E+04	8.77E+04	-1.17E+05	1.18E+05					
.10	8.18E+04	7.02E+04	9.35E+04	7.02E+04	9.35E+04	-1.16E+05	1.17E+05					
.20	8.20E+04	5.95E+04	1.05E+05	5.95E+04	1.05E+05	-1.13E+05	1.15E+05					
.40	8.28E+04	4.00E+04	1.28E+05	4.00E+04	1.28E+05	-1.07E+05	1.12E+05					
.80	8.61E+04	1.06E+04	1.71E+05	1.06E+04	1.71E+05	-9.43E+04	1.06E+05					

Table K–126. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	$\mathbf{f} F_{z}^{ ext{ptot}}$	Filtered $(F_{m{z}}^{ ext{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.17E+04	7.60E+04	8.71E+04	7.60E+04	8.71E+04	-1.13E+05	1.09E+05					
.10	8.17E+04	7.02E+04	9.27E+04	7.02E+04	9.27E+04	-1.15E+05	1.10E+05					
.20	8.17E+04	5.93E+04	1.04E+05	5.93E+04	1.04E+05	-1.12E+05	1.10E+05					
.40	8.23E+04	4.00E+04	1.26E+05	4.00E+04	1.26E+05	-1.06E+05	1.09E+05					
.80	8.52E+04	1.02E+04	1.68E+05	1.03E+04	1.68E+05	-9.37E+04	1.04E+05					

Table K–127. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NFA										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfiltered F_z^{ptot}		Filtered F_z^{ptot}		Filtered	$(oldsymbol{F_z^{ ext{ptot}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_	_	_	_	_	_				
.10				_	_		_				
.20			_	_	_	_	_				
.40	_		_	_	_	_	_				
.80	_				_		_				

Table K–128. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$			$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	8.00E+04	9.17E+04	8.01E+04	9.17E+04	-1.16E+05	1.16E+05					
.10	8.59E+04	7.44E+04	9.77E+04	7.45E+04	9.75E+04	-1.14E+05	1.16E+05					
.20	8.61E+04	6.34E+04	1.09E+05	6.36E+04	1.09E+05	-1.13E+05	1.14E+05					
.40	8.67E+04	4.34E+04	1.32E+05	4.38E+04	1.32E+05	-1.07E+05	1.12E+05					
.80	8.96E+04	1.09E+04	1.76E+05	1.14E+04	1.75E+05	-9.78E+04	1.07E+05					

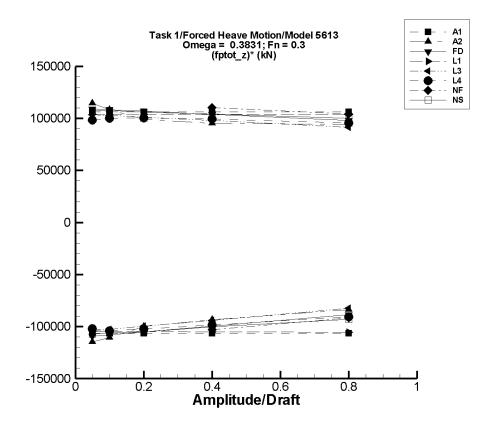


Figure K–17. Minimum and maximum of filtered $(F_z^{\rm ptot} - \langle F_z^{\rm ptot} \rangle) / (z_a/T) \, {\rm vs.} \, (z_a/T)$ for $\omega = 0.3831 \, {\rm rad/s}, \, F_n = 0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–129. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)

	AEGIR-1										
	$\langle F_z^{ m ptot} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{ptot}}$	Filtere	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.05E+04	9.12E+04	8.06E+04	9.12E+04	-1.06E+05	1.06E+05				
.10	8.59E+04	7.52E+04	9.65E+04	7.52E+04	9.65E+04	-1.06E+05	1.06E+05				
.20	8.58E+04	6.45E+04	1.07E+05	6.45E+04	1.07E+05	-1.06E+05	1.06E+05				
.40	8.57E+04	4.30E+04	1.28E+05	4.32E+04	1.28E+05	-1.06E+05	1.06E+05				
.80	8.56E+04	95.6	1.71E+05	444.	1.70E+05	-1.06E+05	1.06E+05				

Table K–130. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(oldsymbol{F_z^{ ext{ptot}}})^*$					
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.01E+04	9.16E+04	8.01E+04	9.16E+04	-1.15E+05	1.14E+05				
.10	8.58E+04	7.47E+04	9.66E+04	7.47E+04	9.66E+04	-1.11E+05	1.08E+05				
.20	8.56E+04	6.55E+04	1.05E+05	6.56E+04	1.05E+05	-1.00E+05	9.89E+04				
.40	8.56E+04	4.80E+04	1.24E+05	4.82E+04	1.24E+05	-9.35E+04	9.53E+04				
.80	8.92E+04	2.17E+04	1.65E+05	2.20E+04	1.64E+05	-8.39E+04	9.41E+04				

Table K–131. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.3$)

	FREDYN										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	$\ket{F_z^{ ext{ptot}}}$ Unfiltered $\ket{F_z^{ ext{ptot}}}$			d $F_z^{ m ptot}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.53E+04	7.98E+04	9.08E+04	7.98E+04	9.07E+04	-1.09E+05	1.09E+05				
.10	8.53E+04	7.45E+04	9.62E+04	7.46E+04	9.62E+04	-1.08E+05	1.09E+05				
.20	8.55E+04	6.45E+04	1.07E+05	6.46E+04	1.07E+05	-1.05E+05	1.07E+05				
.40	8.63E+04	4.64E+04	1.28E+05	4.66E+04	1.28E+05	-9.93E+04	1.04E+05				
.80	8.96E+04	1.86E+04	1.68E+05	1.88E+04	1.68E+05	-8.85E+04	9.82E+04				

Table K–132. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfiltere	$\mathbf{ed} \; F_z^{ ext{ptot}}$	Filtered	l $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.18E+04	7.66E+04	8.71E+04	7.66E+04	8.70E+04	-1.04E+05	1.04E+05				
.10	8.18E+04	7.14E+04	9.23E+04	7.14E+04	9.23E+04	-1.04E+05	1.04E+05				
.20	8.19E+04	6.09E+04	1.03E+05	6.10E+04	1.03E+05	-1.05E+05	1.04E+05				
.40	8.19E+04	4.00E+04	1.24E+05	4.01E+04	1.24E+05	-1.05E+05	1.04E+05				
.80	8.22E+04	-1.84E+03	1.65E+05	-1.73E+03	1.65E+05	-1.05E+05	1.04E+05				

Table K–133. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle F_z^{ m ptot} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.18E+04	7.66E+04	8.70E+04	7.66E+04	8.70E+04	-1.04E+05	1.04E+05				
.10	8.18E+04	7.16E+04	9.22E+04	7.16E+04	9.21E+04	-1.02E+05	1.03E+05				
.20	8.20E+04	6.22E+04	1.02E+05	6.22E+04	1.02E+05	-9.91E+04	1.01E+05				
.40	8.28E+04	4.53E+04	1.22E+05	4.54E+04	1.22E+05	-9.36E+04	9.83E+04				
.80	8.62E+04	2.05E+04	1.60E+05	2.06E+04	1.60E+05	-8.21E+04	9.19E+04				

Table K–134. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.17E+04	7.66E+04	8.66E+04	7.66E+04	8.66E+04	-1.02E+05	9.86E+04					
.10	8.17E+04	7.12E+04	9.17E+04	7.13E+04	9.17E+04	-1.04E+05	1.00E+05					
.20	8.16E+04	6.12E+04	1.02E+05	6.12E+04	1.02E+05	-1.02E+05	1.01E+05					
.40	8.19E+04	4.25E+04	1.22E+05	4.27E+04	1.22E+05	-9.81E+04	9.97E+04					
.80	8.36E+04	1.10E+04	1.60E+05	1.14E+04	1.60E+05	-9.03E+04	9.60E+04					

Table K–135. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NFA										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	d $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min. Max.		Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_	_	_	_		_				
.10							_				
.20	7.92E+04	5.74E+04	1.02E+05	5.76E+04	1.02E+05	-1.08E+05	1.13E+05				
.40	7.94E+04	3.80E+04	1.24E+05	3.82E+04	1.24E+05	-1.03E+05	1.10E+05				
.80	8.17E+04	8.19E+03	1.66E+05	8.42E+03	1.65E+05	-9.16E+04	1.04E+05				

Table K–136. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$				d $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $(F_z^{ ext{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.05E+04	9.13E+04	8.05E+04	9.13E+04	-1.07E+05	1.07E+05				
.10	8.59E+04	7.52E+04	9.68E+04	7.53E+04	9.67E+04	-1.06E+05	1.08E+05				
.20	8.61E+04	6.49E+04	1.07E+05	6.51E+04	1.07E+05	-1.05E+05	1.06E+05				
.40	8.65E+04	4.60E+04	1.29E+05	4.64E+04	1.28E+05	-1.00E+05	1.04E+05				
.80	8.89E+04	1.40E+04	1.69E+05	1.45E+04	1.69E+05	-9.30E+04	9.99E+04				

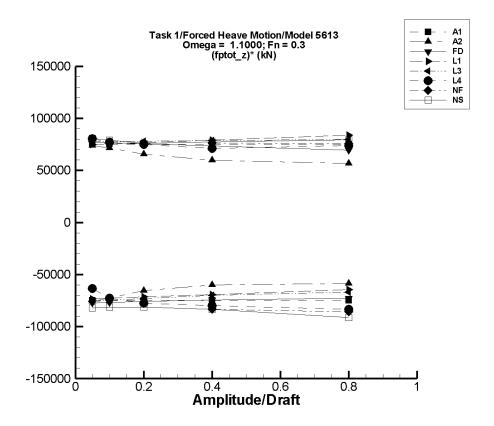


Figure K–18. Minimum and maximum of filtered $(F_z^{\rm ptot} - \langle F_z^{\rm ptot} \rangle) / (z_a/T) \, {\rm vs.} \, (z_a/T)$ for $\omega = 1.1000 \, {\rm rad/s}, \, F_n = 0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–137. Minimum and Maximum of Variables F_z^{ptot} and $(F_z^{\text{ptot}})^* = (F_z^{\text{ptot}} - \langle F_z^{\text{ptot}} \rangle) / (z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 1.1000$ rad/s, $F_n = 0.3$)

	AEGIR-1										
	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$			Filtered	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.16E+04	8.98E+04	8.22E+04	8.97E+04	-7.48E+04	7.54E+04				
.10	8.59E+04	7.74E+04	9.37E+04	7.84E+04	9.34E+04	-7.48E+04	7.54E+04				
.20	8.59E+04	6.88E+04	1.01E+05	7.09E+04	1.01E+05	-7.48E+04	7.54E+04				
.40	8.58E+04	5.18E+04	1.17E+05	5.59E+04	1.16E+05	-7.48E+04	7.54E+04				
.80	8.57E+04	1.76E+04	1.48E+05	2.59E+04	1.46E+05	-7.48E+04	7.54E+04				

Table K–138. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{ptot}}$	Filtered	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_z^{ ext{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	8.18E+04	8.97E+04	8.21E+04	8.96E+04	-7.56E+04	7.39E+04				
.10	8.58E+04	7.79E+04	9.32E+04	7.86E+04	9.29E+04	-7.23E+04	7.15E+04				
.20	8.56E+04	7.05E+04	9.91E+04	7.25E+04	9.87E+04	-6.53E+04	6.56E+04				
.40	8.56E+04	5.77E+04	1.10E+05	6.16E+04	1.10E+05	-6.01E+04	5.99E+04				
.80	8.93E+04	3.39E+04	1.38E+05	4.25E+04	1.35E+05	-5.85E+04	5.69E+04				

Table K–139. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle F_z^{ m ptot} angle$ Unfiltered $F_z^{ m ptot}$			Filtered	$\mathbf{d} \; F_{z}^{ ext{ptot}}$	Filtered $(\boldsymbol{F}_{\boldsymbol{z}}^{\text{ptot}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.53E+04	8.13E+04	8.92E+04	8.14E+04	8.91E+04	-7.70E+04	7.71E+04				
.10	8.53E+04	7.74E+04	9.32E+04	7.76E+04	9.30E+04	-7.67E+04	7.66E+04				
.20	8.55E+04	6.98E+04	1.01E+05	7.03E+04	1.01E+05	-7.59E+04	7.55E+04				
.40	8.63E+04	5.54E+04	1.17E+05	5.65E+04	1.16E+05	-7.45E+04	7.34E+04				
.80	8.96E+04	2.83E+04	1.47E+05	3.11E+04	1.45E+05	-7.31E+04	6.91E+04				

Table K–140. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{ptot}}$	Filtered	$\mathbf{f} F_{z}^{ ext{ptot}}$	Filtered $(oldsymbol{F_z^{ ext{ptot}}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.18E+04	7.81E+04	8.56E+04	7.81E+04	8.55E+04	-7.36E+04	7.46E+04					
.10	8.18E+04	7.44E+04	8.94E+04	7.45E+04	8.93E+04	-7.30E+04	7.52E+04					
.20	8.16E+04	6.71E+04	9.71E+04	6.73E+04	9.69E+04	-7.18E+04	7.64E+04					
.40	8.10E+04	5.30E+04	1.13E+05	5.33E+04	1.13E+05	-6.95E+04	7.88E+04					
.80	7.87E+04	2.65E+04	1.46E+05	2.67E+04	1.45E+05	-6.49E+04	8.35E+04					

Table K–141. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-3											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered	d $oldsymbol{F_z^{ ext{ptot}}}$	Filtered $(F_z^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.18E+04	7.79E+04	8.57E+04	7.80E+04	8.56E+04	-7.61E+04	7.73E+04					
.10	8.18E+04	7.42E+04	8.96E+04	7.43E+04	8.95E+04	-7.52E+04	7.75E+04					
.20	8.18E+04	6.70E+04	9.75E+04	6.71E+04	9.73E+04	-7.33E+04	7.77E+04					
.40	8.20E+04	5.35E+04	1.14E+05	5.38E+04	1.13E+05	-7.03E+04	7.82E+04					
.80	8.27E+04	2.77E+04	1.47E+05	2.87E+04	1.46E+05	-6.76E+04	7.92E+04					

Table K–142. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_{m{z}}^{ ext{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.17E+04	7.84E+04	8.57E+04	7.85E+04	8.57E+04	-6.36E+04	8.04E+04					
.10	8.15E+04	7.39E+04	8.93E+04	7.42E+04	8.92E+04	-7.25E+04	7.72E+04					
.20	8.10E+04	6.48E+04	9.62E+04	6.55E+04	9.60E+04	-7.73E+04	7.51E+04					
.40	8.00E+04	4.72E+04	1.09E+05	4.82E+04	1.09E+05	-7.95E+04	7.18E+04					
.80	7.90E+04	1.05E+04	1.47E+05	1.32E+04	1.39E+05	-8.22E+04	7.50E+04					

Table K–143. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)\,/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NFA											
	$\langle F_z^{ m ptot} angle$	Unfiltered F_z^{ptot}		Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_{z}^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	_	_	_	_	_							
.10												
.20	8.09E+04	6.43E+04	9.61E+04	6.56E+04	9.58E+04	-7.62E+04	7.44E+04					
.40	8.08E+04	4.49E+04	1.14E+05	4.75E+04	1.11E+05	-8.34E+04	7.64E+04					
.80	8.29E+04	1.23E+04	1.57E+05	1.44E+04	1.44E+05	-8.57E+04	7.57E+04					

Table K–144. Minimum and Maximum of Variables $F_z^{\rm ptot}$ and $(F_z^{\rm ptot})^*=(F_z^{\rm ptot}-\langle F_z^{\rm ptot}\rangle)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle m{F}_{m{z}}^{ ext{ptot}} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{ptot}}$	Filtered	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{ptot}}$	Filtered $(F_z^{\text{ptot}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.58E+04	8.17E+04	8.99E+04	8.17E+04	8.99E+04	-8.20E+04	8.09E+04					
.10	8.57E+04	7.75E+04	9.37E+04	7.76E+04	9.36E+04	-8.14E+04	7.90E+04					
.20	8.56E+04	6.91E+04	1.01E+05	6.93E+04	1.01E+05	-8.14E+04	7.61E+04					
.40	8.44E+04	5.06E+04	1.16E+05	5.10E+04	1.15E+05	-8.33E+04	7.72E+04					
.80	8.34E+04	9.00E+03	1.60E+05	1.03E+04	1.47E+05	-9.13E+04	7.93E+04					

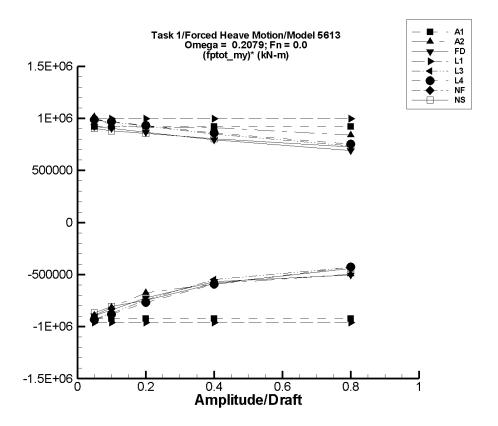


Figure K–19. Minimum and maximum of filtered $\left(M_y^{\rm ptot} - \langle M_y^{\rm ptot} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–145. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-1											
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $\left(oldsymbol{M_y^{ ext{ptot}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-0.790	-4.62E+04	4.62E+04	-4.63E+04	4.61E+04	-9.25E+05	9.22E+05					
.10	-1.58	-9.24E+04	9.23E+04	-9.25E+04	9.22E+04	-9.25E+05	9.22E+05					
.20	-3.16	-1.85E+05	1.85E+05	-1.85E+05	1.84E+05	-9.25E+05	9.22E+05					
.40	-6.31	-3.69E+05	3.69E+05	-3.70E+05	3.69E+05	-9.25E+05	9.22E+05					
.80	-12.6	-7.39E+05	7.39E+05	-7.40E+05	7.38E+05	-9.25E+05	9.22E+05					

Table K–146. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-2											
	$\langle M_y^{ m ptot} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $ig(M_y^{ ext{ptot}}ig)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	2.75E+03	-4.17E+04	5.35E+04	-4.18E+04	5.35E+04	-8.91E+05	1.01E+06					
.10	8.68E+03	-7.30E+04	1.02E+05	-7.31E+04	1.02E+05	-8.18E+05	9.32E+05					
.20	2.72E+04	-1.08E+05	2.10E+05	-1.08E+05	2.10E+05	-6.75E+05	9.14E+05					
.40	7.68E+04	-1.60E+05	4.41E+05	-1.59E+05	4.41E+05	-5.89E+05	9.10E+05					
.80	2.33E+05	-1.66E+05	9.05E+05	-1.64E+05	9.04E+05	-4.95E+05	8.39E+05					

Table K–147. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	FREDYN											
	$\langle M_y^{ m ptot} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	4.69E+03	-4.02E+04	5.06E+04	-4.01E+04	5.07E+04	-8.96E+05	9.20E+05					
.10	6.79E+03	-7.75E+04	9.72E+04	-7.74E+04	9.73E+04	-8.42E+05	9.05E+05					
.20	1.74E+04	-1.27E+05	1.90E+05	-1.27E+05	1.90E+05	-7.22E+05	8.66E+05					
.40	5.80E+04	-1.70E+05	3.75E+05	-1.70E+05	3.76E+05	-5.70E+05	7.95E+05					
.80	1.91E+05	-2.12E+05	7.44E+05	-2.11E+05	7.45E+05	-5.03E+05	6.92E+05					

Table K–148. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-1											
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	4.46	-4.90E+04	4.90E+04	-4.90E+04	4.90E+04	-9.80E+05	9.80E+05					
.10	17.7	-9.80E+04	9.80E+04	-9.80E+04	9.80E+04	-9.80E+05	9.79E+05					
.20	70.9	-1.96E+05	1.96E+05	-1.96E+05	1.96E+05	-9.80E+05	9.79E+05					
.40	283.	-3.92E+05	3.92E+05	-3.92E+05	3.92E+05	-9.80E+05	9.79E+05					
.80	1.13E+03	-7.84E+05	7.84E+05	-7.84E+05	7.84E+05	-9.81E+05	9.78E+05					

Table K–149. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-3											
	$\langle M_y^{ m ptot} angle$ Unfiltered $M_y^{ m ptot}$			Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-957.	-4.84E+04	4.73E+04	-4.83E+04	4.73E+04	-9.48E+05	9.65E+05					
.10	948.	-8.81E+04	9.58E+04	-8.81E+04	9.58E+04	-8.90E+05	9.48E+05					
.20	1.12E+04	-1.41E+05	1.92E+05	-1.41E+05	1.92E+05	-7.63E+05	9.05E+05					
.40	5.13E+04	-1.76E+05	3.83E+05	-1.76E+05	3.83E+05	-5.68E+05	8.29E+05					
.80	1.82E+05	-1.77E+05	7.56E+05	-1.77E+05	7.55E+05	-4.49E+05	7.16E+05					

Table K–150. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-4											
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $ig(M_{m{y}}^{ ext{ptot}}ig)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-981.	-4.86E+04	4.74E+04	-4.86E+04	4.73E+04	-9.51E+05	9.67E+05					
.10	783.	-8.95E+04	9.60E+04	-8.95E+04	9.59E+04	-9.03E+05	9.52E+05					
.20	1.04E+04	-1.47E+05	1.93E+05	-1.47E+05	1.93E+05	-7.89E+05	9.12E+05					
.40	4.84E+04	-1.97E+05	3.85E+05	-1.97E+05	3.85E+05	-6.13E+05	8.41E+05					
.80	1.73E+05	-1.90E+05	7.61E+05	-1.83E+05	7.61E+05	-4.45E+05	7.35E+05					

Table K–151. Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\mathrm{ptot}}\right)^* = \left(M_y^{\mathrm{ptot}} - \langle M_y^{\mathrm{ptot}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.0$)

	NFA											
	$ig raket{\langle M_y^{ ext{ptot}} angle}$ Unfiltered $M_y^{ ext{ptot}}$			Filtered	$m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$\left(M_{m{y}}^{ ext{ptot}} ight)^{m{*}}$					
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)					
.05	_			_			_					
.10	_		_	_	_		_					
.20	_		_	_	_		_					
.40	_		_	_	_		_					
.80	_		_	_	_		_					

Table K–152. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NSHIPMO											
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-66.5	-4.38E+04	4.56E+04	-4.35E+04	4.51E+04	-8.68E+05	9.04E+05					
.10	3.04E+03	-7.84E+04	9.20E+04	-7.77E+04	9.11E+04	-8.07E+05	8.81E+05					
.20	1.17E+04	-1.39E+05	1.85E+05	-1.38E+05	1.83E+05	-7.50E+05	8.56E+05					
.40	4.88E+04	-1.87E+05	3.74E+05	-1.86E+05	3.70E+05	-5.86E+05	8.03E+05					
.80	1.74E+05	-1.91E+05	7.60E+05	-1.79E+05	7.55E+05	-4.40E+05	7.26E+05					

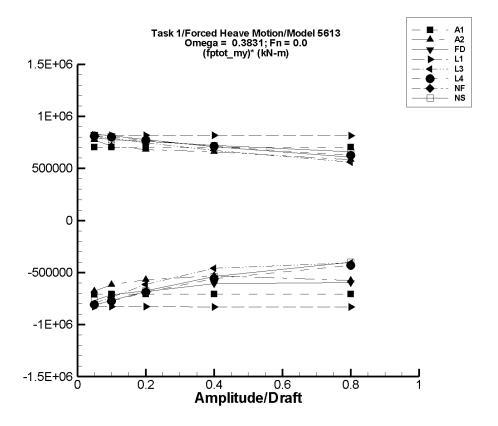


Figure K–20. Minimum and maximum of filtered $\left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–153. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle M_y^{ m ptot} angle$ Unfiltered $M_y^{ m ptot}$			Filtered	$oldsymbol{M_y^{ ext{ptot}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-8.98	-3.64E+04	3.53E+04	-3.54E+04	3.52E+04	-7.07E+05	7.05E+05				
.10	-18.0	-7.28E+04	7.07E+04	-7.07E+04	7.04E+04	-7.07E+05	7.05E+05				
.20	-35.9	-1.46E+05	1.41E+05	-1.41E+05	1.41E+05	-7.07E+05	7.05E+05				
.40	-71.8	-2.91E+05	2.83E+05	-2.83E+05	2.82E+05	-7.07E+05	7.05E+05				
.80	-144.	-5.83E+05	5.66E+05	-5.66E+05	5.64E+05	-7.07E+05	7.05E+05				

Table K–154. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle M_y^{ m ptot} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	Filtered $oldsymbol{M_u^{ ext{ptot}}}$		$\left(oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	2.74E+03	-3.20E+04	4.15E+04	-3.12E+04	4.14E+04	-6.79E+05	7.73E+05				
.10	8.66E+03	-5.40E+04	8.02E+04	-5.30E+04	8.00E+04	-6.17E+05	7.13E+05				
.20	2.71E+04	-8.77E+04	1.64E+05	-8.70E+04	1.63E+05	-5.70E+05	6.80E+05				
.40	7.68E+04	-1.40E+05	3.43E+05	-1.37E+05	3.41E+05	-5.33E+05	6.60E+05				
.80	2.33E+05	-2.34E+05	7.05E+05	-2.30E+05	6.98E+05	-5.78E+05	5.82E+05				

Table K–155. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle M_y^{ m ptot} angle$ Unfiltered $M_y^{ m ptot}$			Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(oldsymbol{M_y^{ ext{ptot}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	4.69E+03	-3.61E+04	4.64E+04	-3.59E+04	4.62E+04	-8.13E+05	8.30E+05				
.10	6.78E+03	-7.03E+04	8.86E+04	-7.01E+04	8.83E+04	-7.69E+05	8.15E+05				
.20	1.73E+04	-1.20E+05	1.73E+05	-1.19E+05	1.72E+05	-6.83E+05	7.76E+05				
.40	5.79E+04	-1.87E+05	3.41E+05	-1.86E+05	3.40E+05	-6.09E+05	7.05E+05				
.80	1.91E+05	-2.95E+05	6.76E+05	-2.90E+05	6.73E+05	-6.02E+05	6.03E+05				

Table K–156. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle M_y^{ m ptot} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	11.6	-4.12E+04	4.12E+04	-4.12E+04	4.12E+04	-8.24E+05	8.24E+05				
.10	46.5	-8.25E+04	8.25E+04	-8.24E+04	8.24E+04	-8.24E+05	8.23E+05				
.20	186.	-1.65E+05	1.65E+05	-1.65E+05	1.65E+05	-8.25E+05	8.23E+05				
.40	745.	-3.30E+05	3.30E+05	-3.30E+05	3.29E+05	-8.26E+05	8.22E+05				
.80	2.98E+03	-6.60E+05	6.60E+05	-6.59E+05	6.59E+05	-8.28E+05	8.20E+05				

Table K–157. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

LAMP-3										
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	d $M_{m{y}}^{ ext{ptot}}$	Filtered	$oldsymbol{M_y^{ ext{ptot}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)			
.05	-956.	-4.06E+04	3.96E+04	-4.06E+04	3.95E+04	-7.93E+05	8.10E+05			
.10	942.	-7.27E+04	8.04E+04	-7.26E+04	8.03E+04	-7.36E+05	7.93E+05			
.20	1.11E+04	-1.11E+05	1.61E+05	-1.11E+05	1.61E+05	-6.10E+05	7.50E+05			
.40	5.09E+04	-1.32E+05	3.21E+05	-1.31E+05	3.21E+05	-4.56E+05	6.75E+05			
.80	1.82E+05	-1.45E+05	6.32E+05	-1.44E+05	6.31E+05	-4.06E+05	5.62E+05			

Table K–158. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle M_u^{ ext{ptot}} angle$ Unfiltered $M_u^{ ext{ptot}}$			Filtered $m{M}_{m{y}}^{ ext{ptot}}$		Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^{m{*}}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.03E+03	-4.13E+04	3.97E+04	-4.13E+04	3.97E+04	-8.05E+05	8.14E+05				
.10	411.	-7.70E+04	8.09E+04	-7.69E+04	8.08E+04	-7.73E+05	8.04E+05				
.20	8.63E+03	-1.29E+05	1.63E+05	-1.29E+05	1.63E+05	-6.87E+05	7.72E+05				
.40	4.13E+04	-1.84E+05	3.27E+05	-1.82E+05	3.27E+05	-5.57E+05	7.14E+05				
.80	1.47E+05	-2.16E+05	6.48E+05	-1.97E+05	6.47E+05	-4.29E+05	6.26E+05				

Table K–159. Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\mathrm{ptot}}\right)^* = \left(M_y^{\mathrm{ptot}} - \langle M_y^{\mathrm{ptot}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.3831$ rad/s, $F_n = 0.0$)

	NFA									
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{ptot}}$	Filtered	Filtered $oldsymbol{M_{oldsymbol{u}}^{ ext{ptot}}}$		$\left(M_{m{y}}^{ ext{ptot}} ight)^{m{*}}$			
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)			
.05	_	_	_	_	_		_			
.10	_	_	_	_	_					
.20	_	_	_	_	_					
.40	_	_	_	_	_					
.80	_	_	_	_	_					

Table K–160. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle M_y^{ m ptot} angle$ Unfiltered $M_y^{ m ptot}$			Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-449.	-3.92E+04	3.98E+04	-3.89E+04	3.95E+04	-7.69E+05	7.98E+05				
.10	2.24E+03	-6.95E+04	8.09E+04	-6.90E+04	8.00E+04	-7.12E+05	7.78E+05				
.20	8.51E+03	-1.29E+05	1.62E+05	-1.27E+05	1.60E+05	-6.76E+05	7.59E+05				
.40	4.03E+04	-1.78E+05	3.32E+05	-1.75E+05	3.28E+05	-5.37E+05	7.20E+05				
.80	1.52E+05	-1.98E+05	6.84E+05	-1.67E+05	6.79E+05	-3.99E+05	6.59E+05				

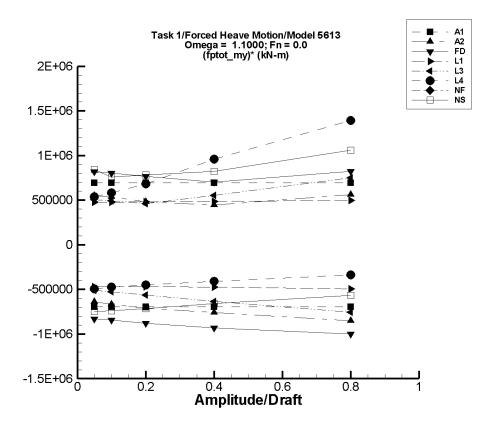


Figure K–21. Minimum and maximum of filtered $\left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–161. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle M_{y}^{ m ptot} angle \hspace{0.5cm}$ Unfiltered $M_{y}^{ m ptot}$			Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-419.	-3.56E+04	3.55E+04	-3.51E+04	3.43E+04	-6.94E+05	6.95E+05				
.10	-838.	-7.12E+04	7.09E+04	-7.02E+04	6.87E+04	-6.94E+05	6.95E+05				
.20	-1.68E+03	-1.42E+05	1.42E+05	-1.40E+05	1.37E+05	-6.94E+05	6.95E+05				
.40	-3.35E+03	-2.85E+05	2.84E+05	-2.81E+05	2.75E+05	-6.94E+05	6.95E+05				
.80	-6.71E+03	-5.70E+05	5.68E+05	-5.62E+05	5.49E+05	-6.94E+05	6.95E+05				

Table K–162. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle M_y^{ m ptot} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	2.33E+03	-3.09E+04	3.04E+04	-2.95E+04	2.98E+04	-6.37E+05	5.49E+05				
.10	7.82E+03	-6.00E+04	6.34E+04	-5.89E+04	6.15E+04	-6.67E+05	5.37E+05				
.20	2.54E+04	-1.19E+05	1.29E+05	-1.17E+05	1.22E+05	-7.12E+05	4.82E+05				
.40	7.35E+04	-2.36E+05	2.63E+05	-2.30E+05	2.52E+05	-7.58E+05	4.45E+05				
.80	2.25E+05	-4.71E+05	7.15E+05	-4.55E+05	6.76E+05	-8.49E+05	5.64E+05				

Table K–163. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle M_y^{ m ptot} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	4.69E+03	-3.66E+04	4.50E+04	-3.69E+04	4.56E+04	-8.32E+05	8.18E+05				
.10	6.78E+03	-7.75E+04	8.58E+04	-7.79E+04	8.70E+04	-8.47E+05	8.02E+05				
.20	1.73E+04	-1.59E+05	1.67E+05	-1.59E+05	1.70E+05	-8.83E+05	7.62E+05				
.40	5.78E+04	-3.22E+05	3.37E+05	-3.18E+05	3.36E+05	-9.39E+05	6.95E+05				
.80	1.91E+05	-6.49E+05	8.73E+05	-6.21E+05	8.38E+05	-1.01E+06	8.10E+05				

Table K–164. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle M_y^{ m ptot} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	16.5	-2.37E+04	2.38E+04	-2.34E+04	2.39E+04	-4.69E+05	4.78E+05				
.10	65.7	-4.74E+04	4.76E+04	-4.69E+04	4.80E+04	-4.69E+05	4.79E+05				
.20	262.	-9.48E+04	9.58E+04	-9.37E+04	9.68E+04	-4.70E+05	4.82E+05				
.40	1.05E+03	-1.91E+05	1.95E+05	-1.88E+05	1.96E+05	-4.74E+05	4.89E+05				
.80	4.18E+03	-3.93E+05	4.08E+05	-3.88E+05	4.05E+05	-4.90E+05	5.01E+05				

Table K–165. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle M_y^{ m ptot} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(oldsymbol{M_y^{ ext{ptot}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-949.	-2.68E+04	2.41E+04	-2.65E+04	2.44E+04	-5.11E+05	5.07E+05				
.10	974.	-5.22E+04	4.98E+04	-5.17E+04	5.03E+04	-5.26E+05	4.93E+05				
.20	1.12E+04	-1.03E+05	1.02E+05	-1.02E+05	1.03E+05	-5.67E+05	4.57E+05				
.40	5.13E+04	-2.08E+05	2.75E+05	-2.05E+05	2.71E+05	-6.42E+05	5.49E+05				
.80	1.83E+05	-4.35E+05	7.88E+05	-4.29E+05	7.77E+05	-7.65E+05	7.42E+05				

Table K–166. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.27E+03	-2.71E+04	2.55E+04	-2.58E+04	2.57E+04	-4.90E+05	5.40E+05				
.10	-1.92E+03	-5.09E+04	5.86E+04	-4.88E+04	5.65E+04	-4.69E+05	5.85E+05				
.20	-870.	-9.86E+04	1.49E+05	-8.96E+04	1.38E+05	-4.44E+05	6.92E+05				
.40	1.25E+04	-1.77E+05	4.82E+05	-1.46E+05	4.01E+05	-3.96E+05	9.71E+05				
.80	6.72E+04	-2.46E+05	1.51E+06	-1.89E+05	1.20E+06	-3.20E+05	1.41E+06				

Table K–167. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NFA										
	$ig raket{\langle M_{m{y}}^{ ext{ptot}}ig angle}$ Unfiltered $M_{m{y}}^{ ext{ptot}}$			Filtered	$m{M}^{ ext{ptot}}_{m{y}}$	Filtered $ig(M_{m{y}}^{ ext{ptot}}ig)^*$					
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)				
.05	_	_	_	_	_		_				
.10	_	_	_	_	_						
.20	_	_	_		_						
.40	_	_	_	_	_						
.80	_	_	_	_	_						

Table K–168. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle M_y^{ m ptot} angle$	Unfiltered $oldsymbol{M_{y}^{ ext{ptot}}}$		Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $\left(oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-2.43E+03	-4.08E+04	4.26E+04	-3.97E+04	3.98E+04	-7.45E+05	8.44E+05				
.10	-2.35E+03	-7.95E+04	7.67E+04	-7.61E+04	7.35E+04	-7.38E+05	7.59E+05				
.20	-9.81E+03	-1.59E+05	1.53E+05	-1.53E+05	1.47E+05	-7.16E+05	7.84E+05				
.40	-4.69E+03	-2.96E+05	4.86E+05	-2.69E+05	3.24E+05	-6.60E+05	8.22E+05				
.80	8.27E+04	-5.22E+05	1.64E+06	-3.70E+05	9.31E+05	-5.65E+05	1.06E+06				

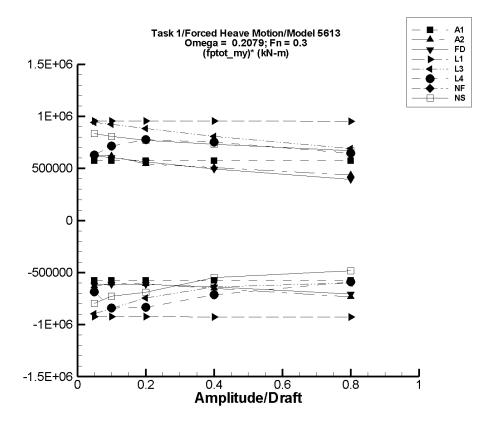


Figure K–22. Minimum and maximum of filtered $\left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–169. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-1											
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $\left(oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-36.7	-3.24E+04	3.21E+04	-2.89E+04	2.86E+04	-5.78E+05	5.73E+05					
.10	-73.3	-6.47E+04	6.42E+04	-5.78E+04	5.73E+04	-5.78E+05	5.73E+05					
.20	-147.	-1.29E+05	1.28E+05	-1.16E+05	1.15E+05	-5.78E+05	5.73E+05					
.40	-293.	-2.59E+05	2.57E+05	-2.31E+05	2.29E+05	-5.78E+05	5.73E+05					
.80	-587.	-5.18E+05	5.14E+05	-4.63E+05	4.58E+05	-5.78E+05	5.73E+05					

Table K–170. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	2.71E+03	-3.15E+04	3.75E+04	-2.88E+04	3.41E+04	-6.31E+05	6.27E+05				
.10	8.60E+03	-5.49E+04	7.73E+04	-5.19E+04	7.03E+04	-6.05E+05	6.17E+05				
.20	2.70E+04	-9.66E+04	1.49E+05	-9.51E+04	1.36E+05	-6.10E+05	5.43E+05				
.40	7.65E+04	-1.84E+05	3.08E+05	-1.84E+05	2.80E+05	-6.50E+05	5.09E+05				
.80	2.32E+05	-3.57E+05	6.43E+05	-3.54E+05	5.81E+05	-7.33E+05	4.36E+05				

Table K–171. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	FREDYN											
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	d $M_{m{y}}^{ ext{ptot}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^{*}$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	4.69E+03	-2.63E+04	3.57E+04	-2.63E+04	3.56E+04	-6.19E+05	6.19E+05					
.10	6.79E+03	-5.46E+04	6.72E+04	-5.45E+04	6.71E+04	-6.13E+05	6.03E+05					
.20	1.74E+04	-1.05E+05	1.30E+05	-1.05E+05	1.30E+05	-6.13E+05	5.64E+05					
.40	5.80E+04	-1.98E+05	2.56E+05	-1.97E+05	2.56E+05	-6.39E+05	4.94E+05					
.80	1.91E+05	-3.76E+05	5.07E+05	-3.73E+05	5.06E+05	-7.06E+05	3.93E+05					

Table K–172. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $ig(M_{m{y}}^{ ext{ptot}}ig)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.07E+04	-5.77E+04	3.64E+04	-5.77E+04	3.64E+04	-9.41E+05	9.40E+05				
.10	-1.06E+04	-1.05E+05	8.34E+04	-1.05E+05	8.34E+04	-9.41E+05	9.40E+05				
.20	-1.05E+04	-1.99E+05	1.78E+05	-1.99E+05	1.77E+05	-9.41E+05	9.40E+05				
.40	-9.83E+03	-3.87E+05	3.66E+05	-3.87E+05	3.66E+05	-9.42E+05	9.39E+05				
.80	-7.29E+03	-7.63E+05	7.43E+05	-7.62E+05	7.42E+05	-9.44E+05	9.37E+05				

Table K–173. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $ig(M_{m{y}}^{ ext{ptot}}ig)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.16E+04	-5.72E+04	3.47E+04	-5.72E+04	3.47E+04	-9.11E+05	9.26E+05				
.10	-9.70E+03	-9.59E+04	8.13E+04	-9.59E+04	8.12E+04	-8.62E+05	9.09E+05				
.20	659.	-1.51E+05	1.74E+05	-1.51E+05	1.74E+05	-7.60E+05	8.66E+05				
.40	4.11E+04	-2.21E+05	3.57E+05	-2.21E+05	3.57E+05	-6.55E+05	7.90E+05				
.80	1.74E+05	-3.20E+05	7.16E+05	-3.19E+05	7.16E+05	-6.17E+05	6.77E+05				

Table K–174. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.60E+04	-5.18E+04	1.87E+04	-5.06E+04	1.51E+04	-6.92E+05	6.22E+05				
.10	-1.97E+04	-1.06E+05	5.11E+04	-1.05E+05	5.10E+04	-8.51E+05	7.07E+05				
.20	-2.03E+04	-1.94E+05	1.33E+05	-1.89E+05	1.33E+05	-8.45E+05	7.67E+05				
.40	5.06E+03	-2.92E+05	3.02E+05	-2.86E+05	3.01E+05	-7.28E+05	7.41E+05				
.80	1.15E+05	-3.80E+05	6.24E+05	-3.66E+05	6.23E+05	-6.01E+05	6.35E+05				

Table K–175. Minimum and Maximum of Variables M_y^{ptot} and $\left(M_y^{\mathrm{ptot}}\right)^* = \left(M_y^{\mathrm{ptot}} - \langle M_y^{\mathrm{ptot}} \rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega = 0.2079$ rad/s, $F_n = 0.3$)

	NFA										
	$\langle M_y^{ ext{ptot}} angle$ Unfiltered $M_y^{ ext{ptot}}$			Filtered	$M_{m{y}}^{ ext{ptot}}$	Filtered $ig(M_y^{ ext{ptot}}ig)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	_	_		_		_	_				
.10	_		_	_	_						
.20	—		_	_	_						
.40		_	_	_	_						
.80		_	_		_						

Table K–176. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle M_y^{ m ptot} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-84.4	-4.02E+04	4.22E+04	-3.99E+04	4.17E+04	-7.96E+05	8.36E+05				
.10	2.15E+03	-7.11E+04	8.39E+04	-7.04E+04	8.30E+04	-7.26E+05	8.09E+05				
.20	1.23E+04	-1.26E+05	1.68E+05	-1.26E+05	1.66E+05	-6.89E+05	7.69E+05				
.40	4.29E+04	-1.79E+05	3.39E+05	-1.76E+05	3.36E+05	-5.47E+05	7.32E+05				
.80	1.58E+05	-2.58E+05	6.98E+05	-2.28E+05	6.92E+05	-4.82E+05	6.69E+05				

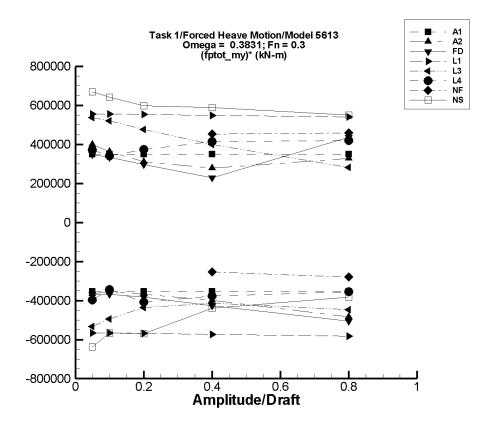


Figure K–23. Minimum and maximum of filtered $\left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–177. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltered $M_{m{u}}^{ ext{ptot}}$		Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$\left(oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-88.2	-1.78E+04	1.75E+04	-1.77E+04	1.74E+04	-3.53E+05	3.50E+05				
.10	-176.	-3.56E+04	3.50E+04	-3.55E+04	3.48E+04	-3.53E+05	3.50E+05				
.20	-353.	-7.11E+04	7.00E+04	-7.10E+04	6.96E+04	-3.53E+05	3.50E+05				
.40	-705.	-1.42E+05	1.40E+05	-1.42E+05	1.39E+05	-3.53E+05	3.50E+05				
.80	-1.41E+03	-2.84E+05	2.80E+05	-2.84E+05	2.79E+05	-3.53E+05	3.50E+05				

Table K–178. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle M_y^{ m ptot} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$\left(oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	2.66E+03	-1.57E+04	2.27E+04	-1.56E+04	2.26E+04	-3.66E+05	3.98E+05				
.10	8.50E+03	-2.72E+04	4.53E+04	-2.69E+04	4.47E+04	-3.54E+05	3.62E+05				
.20	2.68E+04	-4.74E+04	8.94E+04	-4.68E+04	8.89E+04	-3.68E+05	3.11E+05				
.40	7.62E+04	-8.58E+04	1.90E+05	-8.36E+04	1.88E+05	-4.00E+05	2.78E+05				
.80	2.31E+05	-1.61E+05	4.99E+05	-1.56E+05	4.93E+05	-4.84E+05	3.27E+05				

Table K–179. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltered $M_u^{ ext{ptot}}$		Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $\left(oldsymbol{M_y^{ ext{ptot}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	4.69E+03	-1.33E+04	2.25E+04	-1.33E+04	2.25E+04	-3.59E+05	3.57E+05				
.10	6.78E+03	-2.94E+04	4.09E+04	-2.92E+04	4.09E+04	-3.60E+05	3.42E+05				
.20	1.73E+04	-5.87E+04	7.78E+04	-5.80E+04	7.78E+04	-3.76E+05	3.02E+05				
.40	5.79E+04	-1.14E+05	1.51E+05	-1.11E+05	1.51E+05	-4.23E+05	2.33E+05				
.80	1.91E+05	-2.21E+05	5.44E+05	-2.12E+05	5.41E+05	-5.04E+05	4.38E+05				

Table K–180. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle M_y^{ m ptot} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $ig(M_{m{y}}^{ ext{ptot}}ig)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.06E+04	-3.87E+04	1.74E+04	-3.87E+04	1.74E+04	-5.61E+05	5.60E+05				
.10	-1.05E+04	-6.68E+04	4.54E+04	-6.67E+04	4.55E+04	-5.62E+05	5.59E+05				
.20	-9.79E+03	-1.23E+05	1.02E+05	-1.23E+05	1.02E+05	-5.64E+05	5.57E+05				
.40	-7.13E+03	-2.35E+05	2.14E+05	-2.35E+05	2.14E+05	-5.69E+05	5.53E+05				
.80	3.51E+03	-4.59E+05	4.39E+05	-4.59E+05	4.39E+05	-5.78E+05	5.44E+05				

Table K–181. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $ig(M_{m{y}}^{ ext{ptot}}ig)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.16E+04	-3.81E+04	1.55E+04	-3.81E+04	1.55E+04	-5.29E+05	5.41E+05				
.10	-9.56E+03	-5.87E+04	4.28E+04	-5.87E+04	4.28E+04	-4.91E+05	5.24E+05				
.20	1.14E+03	-8.57E+04	9.70E+04	-8.55E+04	9.71E+04	-4.33E+05	4.80E+05				
.40	4.30E+04	-1.22E+05	2.04E+05	-1.22E+05	2.04E+05	-4.12E+05	4.02E+05				
.80	1.82E+05	-1.76E+05	4.09E+05	-1.74E+05	4.09E+05	-4.45E+05	2.84E+05				

Table K–182. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $egin{pmatrix} M_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.59E+04	-4.67E+04	1.36E+04	-3.57E+04	2.76E+03	-3.95E+05	3.74E+05				
.10	-2.05E+04	-6.16E+04	2.70E+04	-5.46E+04	1.38E+04	-3.41E+05	3.43E+05				
.20	-2.51E+04	-1.12E+05	6.14E+04	-1.06E+05	5.02E+04	-4.05E+05	3.77E+05				
.40	-1.34E+04	-1.70E+05	1.54E+05	-1.63E+05	1.54E+05	-3.74E+05	4.17E+05				
.80	5.50E+04	-2.52E+05	3.93E+05	-2.27E+05	3.93E+05	-3.52E+05	4.22E+05				

Table K–183. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NFA										
	$\langle M_y^{ m ptot} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$\left(oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05											
.10							_				
.20	-6.63E+04	-1.33E+05	2.92E+04	-1.29E+05	2.82E+04	-3.11E+05	4.73E+05				
.40	-4.92E+04	-1.54E+05	1.38E+05	-1.51E+05	1.32E+05	-2.54E+05	4.53E+05				
.80	3.87E+04	-2.07E+05	4.09E+05	-1.84E+05	4.06E+05	-2.79E+05	4.59E+05				

Table K–184. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle M_y^{ m ptot} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-217.	-3.23E+04	3.35E+04	-3.21E+04	3.32E+04	-6.38E+05	6.69E+05				
.10	1.16E+03	-5.60E+04	6.60E+04	-5.55E+04	6.53E+04	-5.67E+05	6.42E+05				
.20	1.11E+04	-1.02E+05	1.32E+05	-1.03E+05	1.31E+05	-5.69E+05	5.99E+05				
.40	3.35E+04	-1.49E+05	2.72E+05	-1.43E+05	2.69E+05	-4.40E+05	5.89E+05				
.80	1.35E+05	-2.19E+05	5.81E+05	-1.71E+05	5.75E+05	-3.82E+05	5.51E+05				

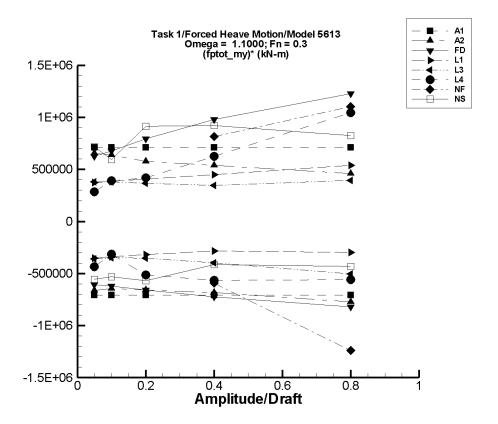


Figure K–24. Minimum and maximum of filtered $\left(M_y^{\text{ptot}} - \langle M_y^{\text{ptot}} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–185. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltered $oldsymbol{M_y^{ ext{ptot}}}$		Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{ptot}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-792.	-4.40E+04	3.59E+04	-3.60E+04	3.48E+04	-7.05E+05	7.12E+05				
.10	-1.58E+03	-8.81E+04	7.18E+04	-7.21E+04	6.96E+04	-7.05E+05	7.12E+05				
.20	-3.17E+03	-1.76E+05	1.44E+05	-1.44E+05	1.39E+05	-7.05E+05	7.12E+05				
.40	-6.34E+03	-3.52E+05	2.87E+05	-2.88E+05	2.79E+05	-7.05E+05	7.12E+05				
.80	-1.27E+04	-7.05E+05	5.75E+05	-5.77E+05	5.57E+05	-7.05E+05	7.12E+05				

Table K–186. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle M_y^{ m ptot} angle$	Unfiltere	Unfiltered $M_{m{y}}^{ ext{ptot}}$		$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $ig(M_{m{y}}^{ ext{ptot}}ig)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	1.96E+03	-3.93E+04	3.63E+04	-3.11E+04	3.49E+04	-6.60E+05	6.58E+05				
.10	7.07E+03	-7.19E+04	7.46E+04	-5.73E+04	7.09E+04	-6.44E+05	6.38E+05				
.20	2.39E+04	-1.31E+05	1.45E+05	-1.07E+05	1.40E+05	-6.56E+05	5.79E+05				
.40	7.06E+04	-2.22E+05	2.98E+05	-2.02E+05	2.87E+05	-6.82E+05	5.40E+05				
.80	2.19E+05	-4.32E+05	6.14E+05	-3.99E+05	5.88E+05	-7.72E+05	4.62E+05				

Table K–187. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	FREDYN											
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(oldsymbol{M_y^{ ext{ptot}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	4.69E+03	-2.67E+04	3.71E+04	-2.57E+04	3.59E+04	-6.08E+05	6.25E+05					
.10	6.78E+03	-5.74E+04	7.70E+04	-5.56E+04	7.42E+04	-6.24E+05	6.74E+05					
.20	1.73E+04	-1.19E+05	1.82E+05	-1.15E+05	1.75E+05	-6.63E+05	7.88E+05					
.40	5.78E+04	-2.43E+05	4.65E+05	-2.36E+05	4.45E+05	-7.33E+05	9.69E+05					
.80	1.91E+05	-4.93E+05	1.21E+06	-4.78E+05	1.16E+06	-8.36E+05	1.21E+06					

Table K–188. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-1.08E+04	-2.85E+04	8.13E+03	-2.84E+04	7.90E+03	-3.52E+05	3.74E+05					
.10	-1.11E+04	-4.55E+04	2.79E+04	-4.52E+04	2.74E+04	-3.41E+05	3.85E+05					
.20	-1.23E+04	-7.66E+04	7.03E+04	-7.62E+04	6.90E+04	-3.19E+05	4.07E+05					
.40	-1.73E+04	-1.31E+05	1.66E+05	-1.31E+05	1.63E+05	-2.83E+05	4.51E+05					
.80	-3.73E+04	-2.80E+05	4.05E+05	-2.74E+05	3.95E+05	-2.96E+05	5.40E+05					

Table K–189. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered	$oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered $\left(oldsymbol{M_y^{ ext{ptot}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.17E+04	-3.00E+04	7.54E+03	-2.98E+04	7.30E+03	-3.62E+05	3.81E+05				
.10	-1.02E+04	-4.60E+04	2.81E+04	-4.54E+04	2.76E+04	-3.53E+05	3.77E+05				
.20	-1.35E+03	-7.45E+04	7.22E+04	-7.29E+04	7.09E+04	-3.58E+05	3.61E+05				
.40	3.30E+04	-1.29E+05	1.73E+05	-1.29E+05	1.69E+05	-4.06E+05	3.40E+05				
.80	1.42E+05	-2.77E+05	4.60E+05	-2.71E+05	4.50E+05	-5.16E+05	3.85E+05				

Table K–190. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltered $oldsymbol{M_y^{ ext{ptot}}}$		Filtered	l $oldsymbol{M_y^{ ext{ptot}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.62E+04	-4.27E+04	9.37E+03	-3.79E+04	-1.78E+03	-4.34E+05	2.88E+05				
.10	-2.24E+04	-5.57E+04	2.96E+04	-5.28E+04	1.80E+04	-3.04E+05	4.04E+05				
.20	-3.21E+04	-1.40E+05	7.50E+04	-1.32E+05	5.44E+04	-4.98E+05	4.33E+05				
.40	-2.96E+04	-2.68E+05	3.14E+05	-2.50E+05	2.26E+05	-5.50E+05	6.39E+05				
.80	5.60E+04	-4.98E+05	1.28E+06	-3.76E+05	9.06E+05	-5.40E+05	1.06E+06				

Table K–191. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NFA											
	$\langle M_{m{y}}^{ ext{ptot}} angle$	Unfiltere	d $m{M}^{ ext{ptot}}_{m{y}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	<u> </u>						—					
.10	<u> </u>					<u> </u>						
.20	-3.83E+04	-1.13E+05	2.58E+04	-1.03E+05	1.66E+04	-3.23E+05	2.74E+05					
.40	-46.3	-3.00E+05	4.05E+05	-2.37E+05	3.26E+05	-5.93E+05	8.16E+05					
.80	1.08E+05	-9.46E+05	1.46E+06	-8.84E+05	9.91E+05	-1.24E+06	1.10E+06					

Table K–192. Minimum and Maximum of Variables $M_y^{\rm ptot}$ and $\left(M_y^{\rm ptot}\right)^*=\left(M_y^{\rm ptot}-\langle M_y^{\rm ptot}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle M_y^{ ext{ptot}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{ ext{ptot}}}$	Filtered	$oldsymbol{M^{ ext{ptot}}_{oldsymbol{y}}}$	Filtered $\left(M_{m{y}}^{ ext{ptot}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.68E+03	-3.11E+04	3.84E+04	-2.95E+04	3.42E+04	-5.57E+05	7.18E+05				
.10	-5.55E+03	-6.33E+04	6.16E+04	-5.87E+04	5.38E+04	-5.32E+05	5.94E+05				
.20	-143.	-1.23E+05	1.89E+05	-1.14E+05	1.83E+05	-5.69E+05	9.14E+05				
.40	-2.14E+04	-2.35E+05	5.54E+05	-1.86E+05	3.47E+05	-4.13E+05	9.22E+05				
.80	1.22E+05	-3.90E+05	1.37E+06	-2.22E+05	7.81E+05	-4.30E+05	8.24E+05				

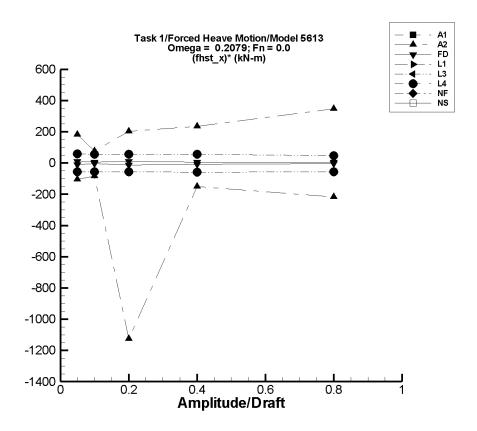


Figure K–25. Minimum and maximum of filtered $\left(F_x^{\rm hst} - \langle F_x^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–193. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ ext{hst}}}$	Filtered F_x^{hst}		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_		_	_				
.10	_					_					
.20	_					_					
.40	_			_		_	_				
.80						_					

Table K–194. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $F_x^{ m hst}$		Filtered $F_x^{ m hst}$		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	7.09	1.76	16.2	1.86	16.1	-105.	181.				
.10	10.5	1.76	18.6	2.04	18.2	-84.4	77.3				
.20	12.9	-1.64E+03	53.5	-212.	53.6	-1.13E+03	204.				
.40	33.6	-62.3	128.	-26.5	128.	-150.	235.				
.80	90.2	-80.4	984.	-84.3	367.	-218.	346.				

Table K–195. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle F_{m{x}}^{ m hst} angle$	Unfilte	Unfiltered F_x^{hst}		$\mathbf{cd} \; F_{m{x}}^{ ext{hst}}$	Filtered $(F_x^{hst})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.84	-9.37	-8.29	-9.37	-8.29	-10.6	11.0				
.10	-8.87	-9.37	-8.28	-9.36	-8.29	-4.95	5.75				
.20	-9.37	-12.0	-7.55	-11.9	-7.55	-12.9	9.07				
.40	-8.36	-12.0	-6.62	-11.7	-6.63	-8.26	4.33				
.80	-7.06	-12.0	-2.14	-10.7	-2.15	-4.58	6.14				

Table K–196. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfiltered $F_x^{ m hst}$ Filtered $F_x^{ m hst}$			Filtered $(F_x^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_	_	_	_	_	_				
.10	_	_	_			_	_				
.20	_	_	_			_	_				
.40		_			_						
.80		_			_						

Table K–197. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered $F_x^{\rm hst}$		Filtered $(F_x^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-56.2	58.3				
.10	-39.0	-44.6	-33.3	-44.6	-33.3	-56.1	57.2				
.20	-39.0	-50.3	-27.5	-50.3	-27.5	-56.6	57.3				
.40	-39.1	-62.0	-16.5	-62.0	-16.5	-57.1	56.5				
.80	-41.1	-84.9	-3.53	-84.9	-3.53	-54.8	46.9				

Table K–198. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	Unfiltered $F_x^{ m hst}$		Filtered $F_x^{\rm hst}$		$\left(oldsymbol{F_x^{ ext{hst}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-56.2	58.3				
.10	-39.0	-44.6	-33.3	-44.6	-33.3	-56.1	57.2				
.20	-39.0	-50.3	-27.5	-50.3	-27.5	-56.6	57.3				
.40	-39.1	-62.0	-16.5	-62.0	-16.5	-57.1	56.5				
.80	-41.1	-84.9	-3.53	-84.9	-3.53	-54.8	46.9				

Table K–199. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NFA										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $F_{m{x}}^{ ext{hst}}$		Filtered $F_{m{x}}^{ m hst}$		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_				_	_				
.10	_										
.20	_										
.40	_			_	_	_	_				
.80											

Table K–200. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle F_{m{x}}^{ m hst} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered $F_{m{x}}^{ m hst}$		Filtered $(F_x^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_				_	_				
.10											
.20	_	_	_	_		_	_				
.40	_		_	_	_	_	_				
.80	_			_	_	_	_				

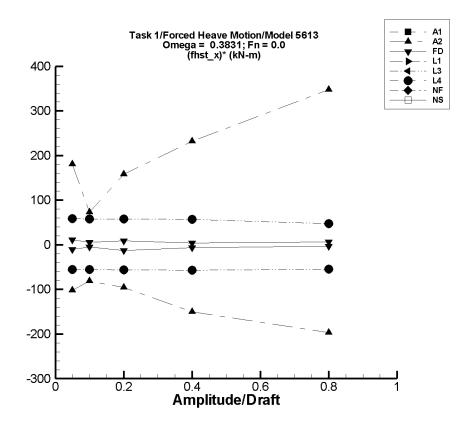


Figure K–26. Minimum and maximum of filtered $\left(F_x^{\rm hst} - \langle F_x^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–201. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered $F_x^{\rm hst}$		Filtered $(F_x^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_		_	_				
.10	_					_					
.20	_					_					
.40	_			_		_	_				
.80						_					

Table K–202. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	Unfiltered $F_x^{ m hst}$		Filtered $F_x^{\rm hst}$		$\left(oldsymbol{F_x^{ ext{hst}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	7.10	1.77	16.2	2.00	16.1	-102.	180.				
.10	10.5	1.76	18.6	2.32	17.8	-81.5	72.8				
.20	21.7	1.76	53.5	2.56	53.3	-95.8	158.				
.40	33.8	-60.6	128.	-26.2	126.	-150.	232.				
.80	88.5	-78.5	368.	-69.3	366.	-197.	347.				

Table K–203. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle F_{m{x}}^{ m hst} angle$	$ angle$ Unfiltered $F_x^{ m hst}$ Filtered $F_x^{ m hst}$					Filtered $(F_x^{hst})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.84	-9.37	-8.28	-9.37	-8.29	-10.5	11.0				
.10	-8.87	-9.37	-8.28	-9.35	-8.30	-4.76	5.68				
.20	-9.38	-12.0	-7.55	-11.9	-7.56	-12.7	9.10				
.40	-8.34	-12.0	-6.63	-11.0	-6.64	-6.61	4.26				
.80	-7.06	-12.0	-2.14	-9.84	-2.17	-3.47	6.11				

Table K–204. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ ext{hst}}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{hst}}$	d $F_x^{ m hst}$ Filtered $(F_x^{ m hst})$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_	_	_	_	_	_				
.10	_	_	_			_	_				
.20	_	_	_			_	_				
.40		_			_						
.80		_			_						

Table K–205. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle oldsymbol{F}_{oldsymbol{x}}^{ ext{hst}} angle$	Unfilte	$\overline{\mathbf{red}} \; \overline{F_{m{x}}^{ ext{hst}}}$	Filtere	Filtered $oldsymbol{F_x^{ ext{hst}}}$		$\mathbf{d} \left(F_{x}^{\mathrm{hst}} \right)^{*}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-56.1	58.3				
.10	-39.0	-44.6	-33.3	-44.6	-33.3	-56.0	57.2				
.20	-39.0	-50.3	-27.5	-50.3	-27.5	-56.5	57.3				
.40	-39.1	-62.0	-16.5	-61.9	-16.5	-57.1	56.5				
.80	-41.0	-84.9	-3.53	-84.8	-3.54	-54.8	46.9				

Table K–206. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-4									
	$\langle F_{m{x}}^{ m hst} angle$	Unfilte	$\mathbf{red} \; F_{m{x}}^{\mathrm{hst}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{hst}}$	Filtered $(F_x^{\text{hst}})^{\frac{1}{2}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-56.1	58.3			
.10	-39.0	-44.6	-33.3	-44.6	-33.3	-56.0	57.2			
.20	-39.0	-50.3	-27.5	-50.3	-27.5	-56.5	57.3			
.40	-39.1	-62.0	-16.5	-61.9	-16.5	-57.1	56.5			
.80	-41.0	-84.9	-3.53	-84.8	-3.54	-54.8	46.9			

Table K–207. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NFA										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered F_{x}^{hst}		Filtered $(F_x^{hst})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_	_	_		_	_				
.10		_									
.20	_	_	_	_		_	_				
.40	_	_	_		_	_	_				
.80											

Table K–208. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

NSHIPMO										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	$\ket{F_x^{ ext{hst}}}$ Unfiltered $\ket{F_x^{ ext{hst}}}$ Filtered $\ket{F_x^{ ext{hst}}}$					Filtered $(F_{m{x}}^{ ext{hst}})^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	_	_		_		_	_			
.10							_			
.20		_					_			
.40		_	_			_	_			
.80		_	_			_	_			

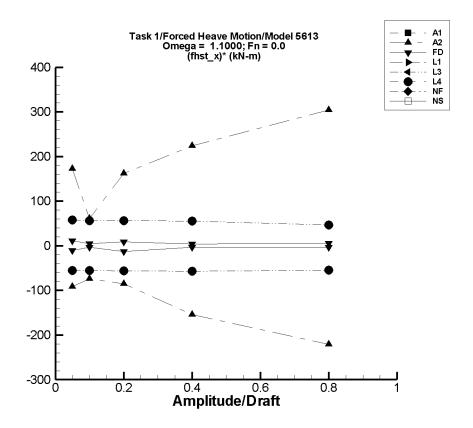


Figure K–27. Minimum and maximum of filtered $\left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–209. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered $F_x^{\rm hst}$		Filtered $(F_x^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_		_	_				
.10	_					_					
.20	_					_					
.40	_			_		_	_				
.80						_					

Table K–210. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfiltered $F_x^{\rm hst}$		Filtered $F_x^{\rm hst}$		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	7.10	1.77	16.1	2.51	15.7	-91.9	173.				
.10	10.5	1.78	18.3	3.07	16.5	-73.9	60.7				
.20	21.7	2.20	53.5	4.72	54.2	-84.9	162.				
.40	34.1	-26.8	128.	-27.4	124.	-154.	224.				
.80	107.	-78.3	984.	-69.0	351.	-220.	305.				

Table K–211. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	FREDYN								
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered F_{x}^{hst}		Filtered $(F_x^{\text{hst}})^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)		
.05	-8.84	-9.37	-8.29	-9.36	-8.29	-10.4	11.0		
.10	-8.87	-9.37	-8.29	-9.21	-8.41	-3.43	4.57		
.20	-9.37	-12.0	-7.55	-11.9	-7.60	-12.8	8.89		
.40	-8.34	-11.8	-6.63	-9.59	-6.76	-3.12	3.95		
.80	-7.06	-11.4	-2.14	-9.74	-2.55	-3.35	5.64		

Table K–212. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

LAMP-1									
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	$\langle F_x^{ m hst} angle$ Unfiltered $F_x^{ m hst}$ Filtered			$\mathbf{ed} \; F_{m{x}}^{ ext{hst}}$	$oxed{F_x^{ ext{hst}}}$ Filtered $oxed{\left(F_x^{ ext{hst}} ight)}^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)		
.05	_	_	_	_	_	_	_		
.10	_	_	_			_	_		
.20	_	_	_			_	_		
.40	_	_	_			_	_		
.80	_	_	_			_	_		

Table K–213. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-3									
	$\langle F_{m{x}}^{ m hst} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered $F_{m{x}}^{ m hst}$		Filtered $(F_x^{\text{hst}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-55.6	57.7			
.10	-39.0	-44.6	-33.3	-44.6	-33.4	-55.5	56.6			
.20	-39.0	-50.3	-27.5	-50.1	-27.6	-55.9	56.6			
.40	-39.1	-62.0	-16.5	-61.7	-16.7	-56.5	56.0			
.80	-41.1	-84.9	-3.53	-84.4	-3.67	-54.2	46.7			

Table K–214. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-4								
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	$\overline{\mathbf{red}} \; F_{m{x}}^{\mathrm{hst}}$	Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{hst}}$	Filtered	$\left(oldsymbol{F_x^{ ext{hst}}} ight)^*$		
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)		
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-55.6	57.7		
.10	-39.0	-44.6	-33.3	-44.6	-33.4	-55.5	56.6		
.20	-39.0	-50.3	-27.5	-50.1	-27.6	-55.9	56.6		
.40	-39.1	-62.0	-16.5	-61.7	-16.7	-56.5	56.0		
.80	-41.1	-84.9	-3.53	-84.4	-3.67	-54.2	46.7		

Table K–215. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NFA									
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfiltered $oldsymbol{F_x^{ ext{hst}}}$		Filtered $F_{m{x}}^{ m hst}$		Filtered	$(oldsymbol{F_x^{ ext{hst}}})^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	_	_		_		_	_			
.10	_					_				
.20	_					_				
.40	_			_		_	_			
.80						_				

Table K–216. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NSHIPMO									
	$\langle F_{m{x}}^{ m hst} angle$	Unfilte	Unfiltered $F_x^{ m hst}$ Filtered $F_x^{ m hst}$		ed $F_{m{x}}^{ m hst}$	Filtered $(F_x^{\text{hst}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05		_			_	_	_			
.10							_			
.20	_	_	_	_	_	_	_			
.40	_	_	_		_	_	_			
.80	_	_				_	_			

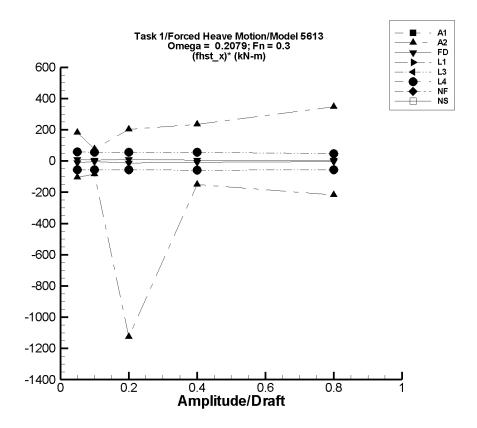


Figure K–28. Minimum and maximum of filtered $\left(F_x^{\text{hst}} - \langle F_x^{\text{hst}} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–217. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-1									
	$\langle F_{m{x}}^{ m hst} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered F_{x}^{hst}		Filtered	$(oldsymbol{F_x^{ ext{hst}}})^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05		_	_	_		_	_			
.10		_								
.20										
.40	_	_	_	_	_	_	_			
.80										

Table K–218. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

AEGIR-2									
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $F_x^{ m hst}$		Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{hst}}$	Filtered $(F_x^{\text{hst}})^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)		
.05	7.10	1.76	16.2	1.86	16.1	-105.	181.		
.10	10.5	1.76	18.6	2.04	18.2	-84.4	77.3		
.20	12.9	-1.64E+03	53.5	-212.	53.6	-1.13E+03	204.		
.40	33.6	-62.3	128.	-26.5	128.	-150.	235.		
.80	90.2	-80.4	984.	-84.3	367.	-218.	346.		

Table K–219. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	FREDYN									
	$\langle F_{m{x}}^{ m hst} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered $F_{m{x}}^{ m hst}$		Filtered	Filtered $\left(oldsymbol{F_{oldsymbol{x}}^{ ext{hst}}} ight)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	-8.84	-9.37	-8.29	-9.37	-8.29	-10.6	11.0			
.10	-8.87	-9.37	-8.28	-9.36	-8.29	-4.95	5.75			
.20	-9.37	-12.0	-7.55	-11.9	-7.55	-12.9	9.07			
.40	-8.36	-12.0	-6.62	-11.7	-6.63	-8.26	4.33			
.80	-7.06	-12.0	-2.14	-10.7	-2.15	-4.58	6.14			

Table K–220. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-1									
	$\langle F_{m{x}}^{ m hst} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered F_{x}^{hst}		Filtered $(F_{x}^{\text{hst}})^{*}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	_	_		_		_	_			
.10	_					_	_			
.20	_		_	_		_	_			
.40	_		_	_		_	_			
.80	_		_			_	_			

Table K–221. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle F_{m{x}}^{ m hst} angle$	Unfilte	$oxed{red} oxed{F_x^{ ext{hst}}}$	Filtered F_x^{hst}		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-56.2	58.3				
.10	-39.0	-44.6	-33.3	-44.6	-33.3	-56.1	57.2				
.20	-39.0	-50.3	-27.5	-50.3	-27.5	-56.5	57.3				
.40	-39.1	-62.0	-16.5	-62.0	-16.5	-57.1	56.5				
.80	-41.1	-84.9	-3.53	-84.9	-3.53	-54.8	46.9				

Table K–222. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle oldsymbol{F}^{ m hst}_{oldsymbol{x}} angle$	Unfilte	$\overline{\mathbf{red}} \; F_{m{x}}^{\mathrm{hst}}$	Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{hst}}$	Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-56.2	58.3				
.10	-39.0	-44.6	-33.3	-44.6	-33.3	-56.1	57.2				
.20	-39.0	-50.3	-27.5	-50.3	-27.5	-56.5	57.3				
.40	-39.1	-62.0	-16.5	-62.0	-16.5	-57.1	56.5				
.80	-41.1	-84.9	-3.53	-84.9	-3.53	-54.8	46.9				

Table K–223. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NFA										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $F_{m{x}}^{ ext{hst}}$		Filtered $F_{m{x}}^{ m hst}$		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_		_	_				
.10	_					_					
.20	_					_					
.40	_			_		_	_				
.80						_					

Table K–224. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

NSHIPMO										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ ext{hst}}}$	Filtered $F_{m{x}}^{ m hst}$		Filtered (F_x^{hst})				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05		_		_		_	_			
.10		_					_			
.20	_	_	_	_		_	_			
.40	_	_	_			_	_			
.80		_				_	_			

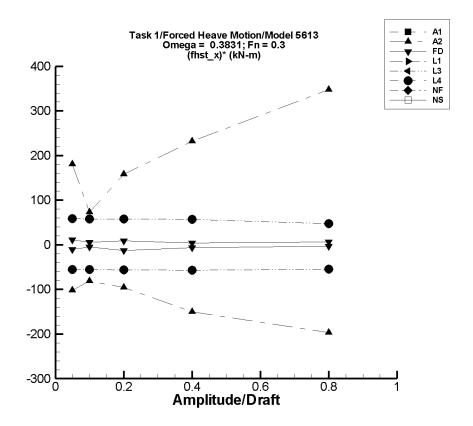


Figure K–29. Minimum and maximum of filtered $\left(F_x^{\rm hst} - \langle F_x^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–225. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $oldsymbol{F_x^{ ext{hst}}}$		Filtered F_x^{hst}		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_	_	_					
.10	_						_				
.20	_						_				
.40	_			_	_	_	_				
.80	_						_				

Table K–226. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle F_{m{x}}^{ m hst} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ ext{hst}}}$	Filtered $F_x^{\rm hst}$		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	7.10	1.77	16.2	2.00	16.1	-102.	180.				
.10	10.5	1.76	18.6	2.32	17.8	-81.5	72.8				
.20	21.7	1.76	53.5	2.56	53.3	-95.8	158.				
.40	33.8	-60.6	128.	-26.2	126.	-150.	232.				
.80	88.5	-78.5	368.	-69.3	366.	-197.	347.				

Table K–227. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	$oxed{red} oxed{F_x^{ ext{hst}}}$	Filtered F_x^{hst}		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.84	-9.37	-8.28	-9.37	-8.29	-10.5	11.0				
.10	-8.87	-9.37	-8.28	-9.35	-8.30	-4.76	5.68				
.20	-9.38	-12.0	-7.55	-11.9	-7.56	-12.7	9.10				
.40	-8.34	-12.0	-6.63	-11.0	-6.64	-6.61	4.26				
.80	-7.06	-12.0	-2.14	-9.84	-2.17	-3.47	6.11				

Table K–228. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle F_{m{x}}^{ m hst} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ ext{hst}}}$	Filtered F_{x}^{hst}		Filtered $(F_x^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_	_	_	_				
.10						_					
.20	_	_	_		_	_	_				
.40	_	_	_		_	_	_				
.80	_	_				_					

Table K–229. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfilte	$\overline{\mathbf{red}} \; \overline{F_{m{x}}^{ ext{hst}}}$	Filtered $F_x^{\rm hst}$		Filtered (F_x^{hst})					
$ (z_a/T) $	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-56.1	58.3				
.10	-39.0	-44.6	-33.3	-44.6	-33.3	-56.0	57.2				
.20	-39.0	-50.3	-27.5	-50.3	-27.5	-56.5	57.3				
.40	-39.1	-62.0	-16.5	-61.9	-16.5	-57.1	56.5				
.80	-41.0	-84.9	-3.53	-84.8	-3.54	-54.8	46.9				

Table K–230. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	$oxed{red} oxed{F_x^{ ext{hst}}}$	Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{hst}}$	Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-56.1	58.3				
.10	-39.0	-44.6	-33.3	-44.6	-33.3	-56.0	57.2				
.20	-39.0	-50.3	-27.5	-50.3	-27.5	-56.5	57.3				
.40	-39.1	-62.0	-16.5	-61.9	-16.5	-57.1	56.5				
.80	-41.0	-84.9	-3.53	-84.8	-3.54	-54.8	46.9				

Table K–231. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NFA										
	$\langle F_{m{x}}^{ m hst} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ ext{hst}}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{hst}}$	Filtered $(F_x^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_	_	_		_					
.10		_									
.20											
.40	_	_	_	_		_	_				
.80						_					

Table K–232. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

NSHIPMO										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ ext{hst}}}$	Filtere	Filtered $F_x^{ m hst}$		$\left(oldsymbol{F_{x}^{ ext{hst}}} ight)^{*}$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	_	_		_		_	_			
.10							_			
.20		_					_			
.40		_	_			_	_			
.80		_	_			_	_			

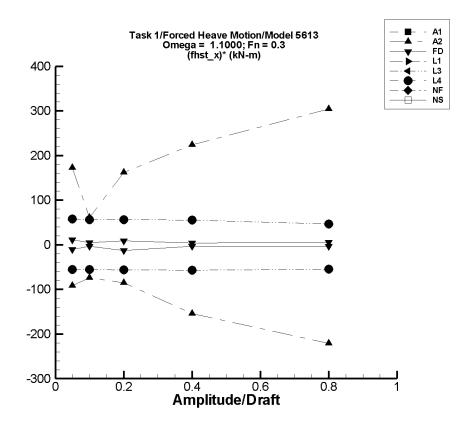


Figure K–30. Minimum and maximum of filtered $\left(F_x^{\rm hst} - \langle F_x^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–233. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfiltered $F_{m{x}}^{ m hst}$		Filtered $F_x^{\rm hst}$		Filtered	$\left(oldsymbol{F_x^{ ext{hst}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_	_	_					
.10	_						_				
.20	_						_				
.40	_			_	_	_	_				
.80	_						_				

Table K–234. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	$oxed{red} oxed{F_x^{ ext{hst}}}$	Filtered $F_x^{\rm hst}$		Filtered	$\left(oldsymbol{F_x^{ ext{hst}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	7.10	1.77	16.1	2.51	15.7	-91.9	173.				
.10	10.5	1.78	18.3	3.07	16.5	-73.9	60.7				
.20	21.7	2.20	53.5	4.72	54.2	-84.9	162.				
.40	34.1	-26.8	128.	-27.4	124.	-154.	224.				
.80	107.	-78.3	984.	-69.0	351.	-220.	305.				

Table K–235. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle F_{m{x}}^{ m hst} angle$	Unfiltered $F_x^{ m hst}$		Filtered $F_x^{\rm hst}$		Filtered	$\left(oldsymbol{F_x^{ ext{hst}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.84	-9.37	-8.29	-9.36	-8.29	-10.4	11.0				
.10	-8.87	-9.37	-8.29	-9.21	-8.41	-3.43	4.57				
.20	-9.37	-12.0	-7.55	-11.9	-7.60	-12.8	8.89				
.40	-8.34	-11.8	-6.63	-9.59	-6.76	-3.12	3.95				
.80	-7.06	-11.4	-2.14	-9.74	-2.55	-3.35	5.64				

Table K–236. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfiltered $F_x^{ m hst}$		Filtered $F_x^{\rm hst}$		Filtered (F_x^{hst})						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	_	_	_	_	_	_	_					
.10	_	_		_		_						
.20	_	_	_		_	_	_					
.40	_	_	_		_	_	_					
.80	_	_	_		_	_	_					

Table K–237. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	$\overline{\mathbf{red}} \; F_{m{x}}^{ ext{hst}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{ ext{hst}}$	Filtere	$\left(oldsymbol{F_{x}^{ ext{hst}}} \right)^{*}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-55.6	57.7				
.10	-39.0	-44.6	-33.3	-44.6	-33.4	-55.5	56.6				
.20	-39.0	-50.3	-27.5	-50.1	-27.6	-55.9	56.6				
.40	-39.1	-62.0	-16.5	-61.7	-16.7	-56.5	56.0				
.80	-41.1	-84.9	-3.53	-84.4	-3.67	-54.2	46.7				

Table K–238. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle oldsymbol{F}^{ ext{hst}}_{oldsymbol{x}} angle$	Unfilte	$\overline{\mathbf{red}} \; F_{m{x}}^{\mathrm{hst}}$	Filtere	$\mathbf{cd} \; F_{m{x}}^{ ext{hst}}$	Filtered	$\left(oldsymbol{F_x^{ ext{hst}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-39.1	-41.9	-36.2	-41.9	-36.2	-55.6	57.7				
.10	-39.0	-44.6	-33.3	-44.6	-33.4	-55.5	56.6				
.20	-39.0	-50.3	-27.5	-50.1	-27.6	-55.9	56.6				
.40	-39.1	-62.0	-16.5	-61.7	-16.7	-56.5	56.0				
.80	-41.1	-84.9	-3.53	-84.4	-3.67	-54.2	46.7				

Table K–239. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NFA										
	$\langle oldsymbol{F_x^{ ext{hst}}} angle$	Unfiltered $F_x^{ m hst}$		Filtered F_{x}^{hst}		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_	_	_		_					
.10		_									
.20											
.40	_	_	_	_		_	_				
.80						_					

Table K–240. Minimum and Maximum of Variables $F_x^{\rm hst}$ and $\left(F_x^{\rm hst}\right)^*=\left(F_x^{\rm hst}-\langle F_x^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle F_{m{x}}^{ m hst} angle$	Unfiltered $F_x^{ m hst}$		Filtered $F_{m{x}}^{ m hst}$		Filtered (F_x^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_				_	_				
.10											
.20	_	_	_	_		_	_				
.40	_		_	_	_	_	_				
.80	_			_	_	_	_				

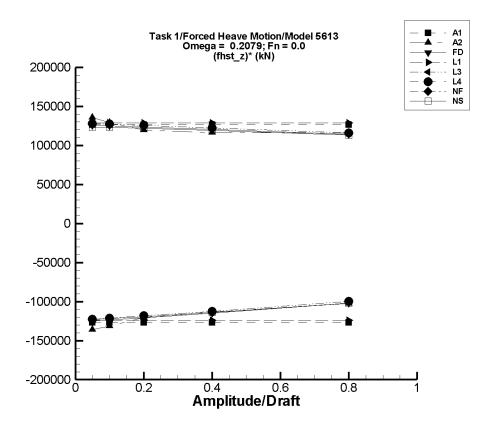


Figure K–31. Minimum and maximum of filtered $\left(F_z^{\rm hst} - \langle F_z^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–241. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{hst}}$	Filtered	$\mathbf{f} F_{z}^{\mathrm{hst}}$	Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	7.96E+04	9.22E+04	7.96E+04	9.22E+04	-1.27E+05	1.26E+05				
.10	8.59E+04	7.32E+04	9.86E+04	7.32E+04	9.86E+04	-1.27E+05	1.26E+05				
.20	8.59E+04	6.06E+04	1.11E+05	6.06E+04	1.11E+05	-1.27E+05	1.26E+05				
.40	8.59E+04	3.53E+04	1.37E+05	3.52E+04	1.36E+05	-1.27E+05	1.26E+05				
.80	8.59E+04	-1.54E+04	1.87E+05	-1.54E+04	1.87E+05	-1.27E+05	1.26E+05				

Table K–242. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	d $F_z^{ m hst}$	Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	7.91E+04	9.27E+04	7.91E+04	9.27E+04	-1.36E+05	1.36E+05				
.10	8.58E+04	7.26E+04	9.88E+04	7.27E+04	9.87E+04	-1.32E+05	1.29E+05				
.20	8.57E+04	6.15E+04	1.10E+05	6.16E+04	1.10E+05	-1.21E+05	1.20E+05				
.40	8.57E+04	4.02E+04	1.32E+05	4.02E+04	1.32E+05	-1.14E+05	1.16E+05				
.80	8.95E+04	7.38E+03	1.82E+05	7.37E+03	1.82E+05	-1.03E+05	1.16E+05				

Table K–243. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{z}^{ ext{hst}}$	Filtered	Filtered $(F_{z}^{\mathrm{hst}})^{*}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.53E+04	7.90E+04	9.16E+04	7.90E+04	9.16E+04	-1.25E+05	1.26E+05				
.10	8.53E+04	7.29E+04	9.78E+04	7.29E+04	9.78E+04	-1.24E+05	1.25E+05				
.20	8.55E+04	6.14E+04	1.10E+05	6.14E+04	1.10E+05	-1.21E+05	1.23E+05				
.40	8.63E+04	4.03E+04	1.34E+05	4.04E+04	1.34E+05	-1.15E+05	1.20E+05				
.80	8.96E+04	7.92E+03	1.81E+05	7.97E+03	1.81E+05	-1.02E+05	1.14E+05				

Table K–244. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-1											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtered	$\mathbf{f} F_z^{\mathrm{hst}}$	Filtered	Filtered $(F_z^{hst})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.56E+04	7.92E+04	9.19E+04	7.92E+04	9.19E+04	-1.26E+05	1.26E+05					
.10	8.56E+04	7.29E+04	9.82E+04	7.29E+04	9.82E+04	-1.26E+05	1.26E+05					
.20	8.56E+04	6.03E+04	1.11E+05	6.03E+04	1.11E+05	-1.26E+05	1.26E+05					
.40	8.56E+04	3.50E+04	1.36E+05	3.51E+04	1.36E+05	-1.26E+05	1.26E+05					
.80	8.56E+04	-1.55E+04	1.87E+05	-1.54E+04	1.87E+05	-1.26E+05	1.26E+05					

Table K–245. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-3											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	d $F_z^{ m hst}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.18E+04	-1.25E+05	1.26E+05					
.10	8.56E+04	7.32E+04	9.80E+04	7.32E+04	9.80E+04	-1.24E+05	1.25E+05					
.20	8.57E+04	6.16E+04	1.10E+05	6.16E+04	1.10E+05	-1.21E+05	1.23E+05					
.40	8.65E+04	4.06E+04	1.35E+05	4.06E+04	1.35E+05	-1.15E+05	1.20E+05					
.80	8.97E+04	8.02E+03	1.81E+05	8.04E+03	1.81E+05	-1.02E+05	1.14E+05					

Table K–246. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-4											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	Filtered $F_z^{\rm hst}$		$(F_z^{\mathrm{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.18E+04	-1.25E+05	1.26E+05					
.10	8.56E+04	7.32E+04	9.80E+04	7.32E+04	9.80E+04	-1.24E+05	1.25E+05					
.20	8.57E+04	6.16E+04	1.10E+05	6.16E+04	1.10E+05	-1.21E+05	1.23E+05					
.40	8.65E+04	4.06E+04	1.35E+05	4.06E+04	1.35E+05	-1.15E+05	1.20E+05					
.80	8.97E+04	8.02E+03	1.81E+05	8.04E+03	1.81E+05	-1.02E+05	1.14E+05					

Table K–247. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NFA											
	$\langle F_z^{ m hst} angle$	Unfilte	Unfiltered F_z^{hst}		Filtered $F_z^{\rm hst}$		$\mathbf{d} \left(F_{z}^{\mathrm{hst}} \right)^{*}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05		_		_	_	_						
.10		_										
.20												
.40	_	_		_	_	_	_					
.80												

Table K–248. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NSHIPMO											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	7.97E+04	9.21E+04	7.97E+04	9.21E+04	-1.23E+05	1.23E+05					
.10	8.60E+04	7.36E+04	9.84E+04	7.38E+04	9.83E+04	-1.22E+05	1.23E+05					
.20	8.61E+04	6.20E+04	1.11E+05	6.22E+04	1.10E+05	-1.19E+05	1.22E+05					
.40	8.69E+04	4.10E+04	1.35E+05	4.14E+04	1.35E+05	-1.14E+05	1.19E+05					
.80	9.03E+04	8.24E+03	1.82E+05	8.63E+03	1.81E+05	-1.02E+05	1.13E+05					

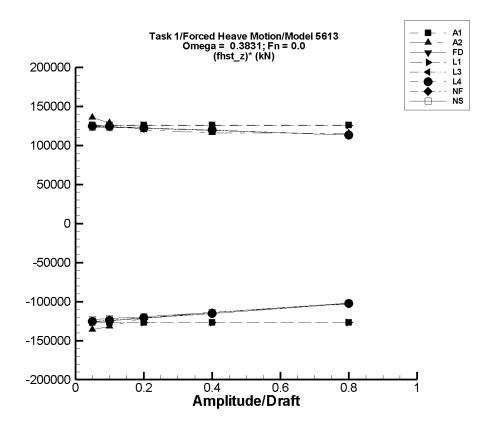


Figure K–32. Minimum and maximum of filtered $\left(F_z^{\rm hst} - \langle F_z^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–249. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-1											
	$\langle F_z^{ m hst} angle$	Unfiltered $F_z^{\rm hst}$		Filtered	$\mathbf{f} F_{z}^{\mathrm{hst}}$	Filtered $(oldsymbol{F_z^{ ext{hst}}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	7.96E+04	9.22E+04	7.96E+04	9.22E+04	-1.27E+05	1.26E+05					
.10	8.59E+04	7.32E+04	9.86E+04	7.32E+04	9.85E+04	-1.27E+05	1.26E+05					
.20	8.59E+04	6.06E+04	1.11E+05	6.05E+04	1.11E+05	-1.27E+05	1.26E+05					
.40	8.59E+04	3.53E+04	1.37E+05	3.51E+04	1.36E+05	-1.27E+05	1.26E+05					
.80	8.59E+04	-1.54E+04	1.87E+05	-1.57E+04	1.87E+05	-1.27E+05	1.26E+05					

Table K–250. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-2											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	7.91E+04	9.27E+04	7.91E+04	9.27E+04	-1.36E+05	1.35E+05					
.10	8.58E+04	7.26E+04	9.88E+04	7.26E+04	9.87E+04	-1.32E+05	1.29E+05					
.20	8.57E+04	6.15E+04	1.10E+05	6.15E+04	1.10E+05	-1.21E+05	1.19E+05					
.40	8.57E+04	4.02E+04	1.32E+05	4.01E+04	1.32E+05	-1.14E+05	1.16E+05					
.80	8.95E+04	7.38E+03	1.82E+05	7.20E+03	1.82E+05	-1.03E+05	1.15E+05					

Table K–251. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	FREDYN											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{z}^{ ext{hst}}$	Filtered $(F_z^{hst})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.53E+04	7.90E+04	9.16E+04	7.90E+04	9.15E+04	-1.25E+05	1.25E+05					
.10	8.53E+04	7.29E+04	9.78E+04	7.30E+04	9.78E+04	-1.23E+05	1.25E+05					
.20	8.55E+04	6.14E+04	1.10E+05	6.14E+04	1.10E+05	-1.20E+05	1.23E+05					
.40	8.63E+04	4.03E+04	1.34E+05	4.05E+04	1.34E+05	-1.15E+05	1.20E+05					
.80	8.96E+04	7.92E+03	1.81E+05	8.09E+03	1.81E+05	-1.02E+05	1.14E+05					

Table K–252. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-1												
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtered	$\mathbf{f} F_z^{\mathrm{hst}}$	Filtered $(F_z^{\text{hst}})^*$							
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.						
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)						
.05	8.56E+04	7.92E+04	9.19E+04	7.93E+04	9.19E+04	-1.26E+05	1.26E+05						
.10	8.56E+04	7.29E+04	9.82E+04	7.29E+04	9.82E+04	-1.26E+05	1.26E+05						
.20	8.56E+04	6.03E+04	1.11E+05	6.03E+04	1.11E+05	-1.26E+05	1.26E+05						
.40	8.56E+04	3.50E+04	1.36E+05	3.51E+04	1.36E+05	-1.26E+05	1.26E+05						
.80	8.56E+04	-1.55E+04	1.87E+05	-1.53E+04	1.86E+05	-1.26E+05	1.26E+05						

Table K–253. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-3											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	d $F_z^{ m hst}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.18E+04	-1.25E+05	1.25E+05					
.10	8.56E+04	7.32E+04	9.80E+04	7.32E+04	9.80E+04	-1.24E+05	1.25E+05					
.20	8.57E+04	6.16E+04	1.10E+05	6.16E+04	1.10E+05	-1.20E+05	1.23E+05					
.40	8.65E+04	4.06E+04	1.35E+05	4.06E+04	1.34E+05	-1.15E+05	1.20E+05					
.80	8.96E+04	8.02E+03	1.81E+05	8.08E+03	1.81E+05	-1.02E+05	1.14E+05					

Table K–254. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-4											
	$\langle F_z^{ m hst} angle$ Unfiltered $F_z^{ m hst}$			Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.18E+04	-1.25E+05	1.25E+05					
.10	8.56E+04	7.32E+04	9.80E+04	7.32E+04	9.80E+04	-1.24E+05	1.25E+05					
.20	8.57E+04	6.16E+04	1.10E+05	6.16E+04	1.10E+05	-1.20E+05	1.23E+05					
.40	8.65E+04	4.06E+04	1.35E+05	4.06E+04	1.34E+05	-1.15E+05	1.20E+05					
.80	8.96E+04	8.02E+03	1.81E+05	8.08E+03	1.81E+05	-1.02E+05	1.14E+05					

Table K–255. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NFA											
	$\langle F_z^{ m hst} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_z^{ ext{hst}}}$	Filtere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{hst}}$	Filtered	$\left(oldsymbol{F_z^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	_	_		_	_	_						
.10	_						_					
.20	_	_	_	_	_	_	_					
.40	_		_		_	_	_					
.80							_					

Table K–256. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NSHIPMO											
	$\langle F_z^{ m hst} angle$	Unfiltered F_z^{hst}		Filtere	d $F_z^{ m hst}$	Filtered $(F_{m{z}}^{ ext{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	7.97E+04	9.21E+04	7.97E+04	9.21E+04	-1.23E+05	1.23E+05					
.10	8.60E+04	7.36E+04	9.84E+04	7.38E+04	9.83E+04	-1.22E+05	1.23E+05					
.20	8.61E+04	6.20E+04	1.11E+05	6.23E+04	1.10E+05	-1.19E+05	1.22E+05					
.40	8.69E+04	4.10E+04	1.35E+05	4.14E+04	1.35E+05	-1.14E+05	1.19E+05					
.80	9.03E+04	8.24E+03	1.82E+05	8.63E+03	1.81E+05	-1.02E+05	1.13E+05					

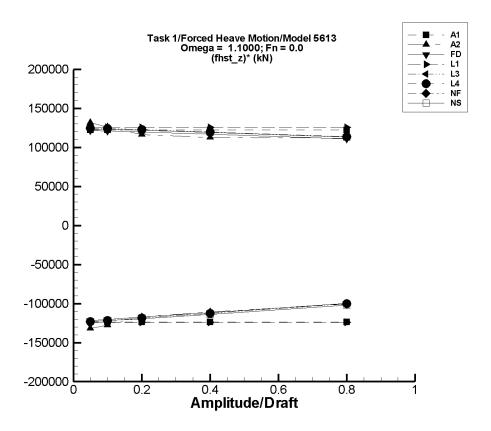


Figure K–33. Minimum and maximum of filtered $\left(F_z^{\rm hst} - \langle F_z^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–257. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle F_z^{ m hst} angle$	Unfiltered $F_z^{\rm hst}$		Filtered	$\mathbf{f} F_{z}^{\mathrm{hst}}$	Filtered	$(oldsymbol{F_z^{ ext{hst}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	7.96E+04	9.22E+04	7.97E+04	9.20E+04	-1.24E+05	1.23E+05				
.10	8.59E+04	7.32E+04	9.86E+04	7.35E+04	9.82E+04	-1.24E+05	1.23E+05				
.20	8.59E+04	6.06E+04	1.11E+05	6.12E+04	1.10E+05	-1.24E+05	1.23E+05				
.40	8.59E+04	3.53E+04	1.37E+05	3.65E+04	1.35E+05	-1.24E+05	1.23E+05				
.80	8.59E+04	-1.54E+04	1.87E+05	-1.29E+04	1.84E+05	-1.24E+05	1.23E+05				

Table K–258. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle F_z^{ m hst} angle$ Unfiltered $F_z^{ m hst}$			Filtere	$\mathbf{d} \; F_{z}^{\mathrm{hst}}$	Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	7.91E+04	9.27E+04	7.93E+04	9.25E+04	-1.32E+05	1.32E+05				
.10	8.58E+04	7.26E+04	9.87E+04	7.30E+04	9.84E+04	-1.28E+05	1.26E+05				
.20	8.57E+04	6.15E+04	1.10E+05	6.22E+04	1.09E+05	-1.17E+05	1.17E+05				
.40	8.57E+04	4.02E+04	1.32E+05	4.14E+04	1.31E+05	-1.11E+05	1.13E+05				
.80	8.95E+04	7.38E+03	1.82E+05	9.04E+03	1.79E+05	-1.01E+05	1.12E+05				

Table K–259. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle F_z^{ m hst} angle$ Unfiltered $F_z^{ m hst}$			Filtere	$\mathbf{d} \; F_{z}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.53E+04	7.90E+04	9.16E+04	7.92E+04	9.14E+04	-1.21E+05	1.22E+05				
.10	8.53E+04	7.29E+04	9.78E+04	7.33E+04	9.74E+04	-1.20E+05	1.21E+05				
.20	8.55E+04	6.14E+04	1.10E+05	6.21E+04	1.09E+05	-1.17E+05	1.20E+05				
.40	8.63E+04	4.03E+04	1.34E+05	4.16E+04	1.33E+05	-1.12E+05	1.17E+05				
.80	8.96E+04	7.92E+03	1.81E+05	9.50E+03	1.78E+05	-1.00E+05	1.11E+05				

Table K–260. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-1											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtered	$\mathbf{f} F_z^{\mathrm{hst}}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.56E+04	7.92E+04	9.19E+04	7.93E+04	9.18E+04	-1.25E+05	1.25E+05					
.10	8.56E+04	7.29E+04	9.82E+04	7.31E+04	9.80E+04	-1.25E+05	1.25E+05					
.20	8.56E+04	6.03E+04	1.11E+05	6.06E+04	1.11E+05	-1.25E+05	1.25E+05					
.40	8.56E+04	3.51E+04	1.36E+05	3.56E+04	1.36E+05	-1.25E+05	1.25E+05					
.80	8.56E+04	-1.54E+04	1.87E+05	-1.43E+04	1.85E+05	-1.25E+05	1.25E+05					

Table K–261. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.17E+04	-1.24E+05	1.24E+05				
.10	8.56E+04	7.32E+04	9.80E+04	7.33E+04	9.79E+04	-1.22E+05	1.23E+05				
.20	8.57E+04	6.16E+04	1.10E+05	6.19E+04	1.10E+05	-1.19E+05	1.22E+05				
.40	8.65E+04	4.06E+04	1.35E+05	4.10E+04	1.34E+05	-1.14E+05	1.19E+05				
.80	8.96E+04	8.04E+03	1.81E+05	8.60E+03	1.80E+05	-1.01E+05	1.13E+05				

Table K–262. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.17E+04	-1.24E+05	1.24E+05				
.10	8.56E+04	7.32E+04	9.80E+04	7.33E+04	9.79E+04	-1.22E+05	1.23E+05				
.20	8.57E+04	6.16E+04	1.10E+05	6.19E+04	1.10E+05	-1.19E+05	1.22E+05				
.40	8.65E+04	4.06E+04	1.35E+05	4.10E+04	1.34E+05	-1.14E+05	1.19E+05				
.80	8.96E+04	8.04E+03	1.81E+05	8.60E+03	1.80E+05	-1.01E+05	1.13E+05				

Table K–263. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NFA										
	$\langle F_z^{ m hst} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_z^{ ext{hst}}}$	Filtere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{hst}}$	Filtered (F_z^{hst})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_	_	_					
.10	_						_				
.20	_	_	_	_	_	_	_				
.40	_		_		_	_	_				
.80							_				

Table K–264. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	7.97E+04	9.21E+04	7.97E+04	9.21E+04	-1.23E+05	1.23E+05				
.10	8.60E+04	7.36E+04	9.84E+04	7.38E+04	9.83E+04	-1.22E+05	1.23E+05				
.20	8.61E+04	6.20E+04	1.11E+05	6.23E+04	1.10E+05	-1.19E+05	1.22E+05				
.40	8.69E+04	4.10E+04	1.35E+05	4.14E+04	1.35E+05	-1.14E+05	1.19E+05				
.80	9.03E+04	8.24E+03	1.82E+05	8.63E+03	1.81E+05	-1.02E+05	1.13E+05				

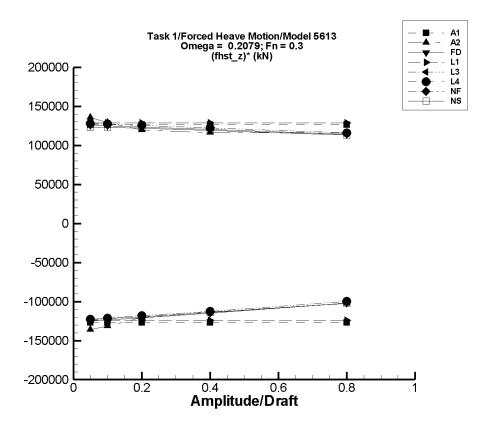


Figure K–34. Minimum and maximum of filtered $\left(F_z^{\rm hst} - \langle F_z^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–265. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{hst}}$	Filtered	$\mathbf{f} F_{z}^{\mathrm{hst}}$	Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	7.96E+04	9.22E+04	7.96E+04	9.22E+04	-1.27E+05	1.26E+05				
.10	8.59E+04	7.32E+04	9.86E+04	7.32E+04	9.86E+04	-1.27E+05	1.26E+05				
.20	8.59E+04	6.06E+04	1.11E+05	6.06E+04	1.11E+05	-1.27E+05	1.26E+05				
.40	8.59E+04	3.53E+04	1.37E+05	3.52E+04	1.36E+05	-1.27E+05	1.26E+05				
.80	8.59E+04	-1.54E+04	1.87E+05	-1.54E+04	1.87E+05	-1.27E+05	1.26E+05				

Table K–266. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\left\langle F_z^{\rm hst}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle F_z^{ m hst} angle$ Unfiltered $F_z^{ m hst}$			Filtere	Filtered $F_z^{\rm hst}$		Filtered $(F_{z}^{\mathrm{hst}})^{*}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	7.91E+04	9.27E+04	7.91E+04	9.27E+04	-1.36E+05	1.36E+05				
.10	8.58E+04	7.26E+04	9.88E+04	7.27E+04	9.87E+04	-1.32E+05	1.29E+05				
.20	8.57E+04	6.15E+04	1.10E+05	6.16E+04	1.10E+05	-1.21E+05	1.20E+05				
.40	8.57E+04	4.02E+04	1.32E+05	4.02E+04	1.32E+05	-1.14E+05	1.16E+05				
.80	8.95E+04	7.38E+03	1.82E+05	7.37E+03	1.82E+05	-1.03E+05	1.16E+05				

Table K–267. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{z}^{ ext{hst}}$	Filtered	$(F_z^{ m hst})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.53E+04	7.90E+04	9.16E+04	7.90E+04	9.16E+04	-1.25E+05	1.26E+05				
.10	8.53E+04	7.29E+04	9.78E+04	7.29E+04	9.78E+04	-1.24E+05	1.25E+05				
.20	8.55E+04	6.14E+04	1.10E+05	6.14E+04	1.10E+05	-1.21E+05	1.23E+05				
.40	8.63E+04	4.03E+04	1.34E+05	4.04E+04	1.34E+05	-1.15E+05	1.20E+05				
.80	8.96E+04	7.92E+03	1.81E+05	7.97E+03	1.81E+05	-1.02E+05	1.14E+05				

Table K–268. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{hst}}$	Filtered	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered	$(oldsymbol{F_z^{ ext{hst}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.56E+04	7.92E+04	9.19E+04	7.92E+04	9.19E+04	-1.26E+05	1.26E+05				
.10	8.56E+04	7.29E+04	9.82E+04	7.29E+04	9.82E+04	-1.26E+05	1.26E+05				
.20	8.56E+04	6.03E+04	1.11E+05	6.03E+04	1.11E+05	-1.26E+05	1.26E+05				
.40	8.56E+04	3.50E+04	1.36E+05	3.51E+04	1.36E+05	-1.26E+05	1.26E+05				
.80	8.56E+04	-1.55E+04	1.87E+05	-1.54E+04	1.87E+05	-1.26E+05	1.26E+05				

Table K–269. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-3									
	$\langle F_z^{ m hst} angle$	Unfiltered F_z^{hst}		Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.18E+04	-1.25E+05	1.26E+05			
.10	8.56E+04	7.32E+04	9.80E+04	7.32E+04	9.80E+04	-1.24E+05	1.25E+05			
.20	8.57E+04	6.16E+04	1.10E+05	6.16E+04	1.10E+05	-1.21E+05	1.23E+05			
.40	8.65E+04	4.06E+04	1.35E+05	4.06E+04	1.35E+05	-1.15E+05	1.20E+05			
.80	8.97E+04	8.02E+03	1.81E+05	8.04E+03	1.81E+05	-1.02E+05	1.14E+05			

Table K–270. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle F_z^{ m hst} angle$	Unfiltered F_z^{hst}		Filtered $F_z^{\rm hst}$		Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.18E+04	-1.25E+05	1.26E+05				
.10	8.56E+04	7.32E+04	9.80E+04	7.32E+04	9.80E+04	-1.24E+05	1.25E+05				
.20	8.57E+04	6.16E+04	1.10E+05	6.16E+04	1.10E+05	-1.21E+05	1.23E+05				
.40	8.65E+04	4.06E+04	1.35E+05	4.06E+04	1.35E+05	-1.15E+05	1.20E+05				
.80	8.97E+04	8.02E+03	1.81E+05	8.04E+03	1.81E+05	-1.02E+05	1.14E+05				

Table K–271. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NFA									
	$\langle F_z^{ m hst} angle$	Unfilte	Unfiltered $F_z^{\rm hst}$		Filtered F_z^{hst}		$(oldsymbol{F_z^{ ext{hst}}})^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	_	_			_	_				
.10	_					_				
.20	_		_			_				
.40	_	_			_	_				
.80						_				

Table K–272. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle F_z^{ m hst} angle$ Unfiltered $F_z^{ m hst}$		Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	7.97E+04	9.21E+04	7.97E+04	9.21E+04	-1.23E+05	1.23E+05				
.10	8.60E+04	7.36E+04	9.84E+04	7.38E+04	9.83E+04	-1.22E+05	1.23E+05				
.20	8.61E+04	6.20E+04	1.11E+05	6.22E+04	1.10E+05	-1.19E+05	1.22E+05				
.40	8.69E+04	4.10E+04	1.35E+05	4.14E+04	1.35E+05	-1.14E+05	1.19E+05				
.80	9.03E+04	8.24E+03	1.82E+05	8.63E+03	1.81E+05	-1.02E+05	1.13E+05				

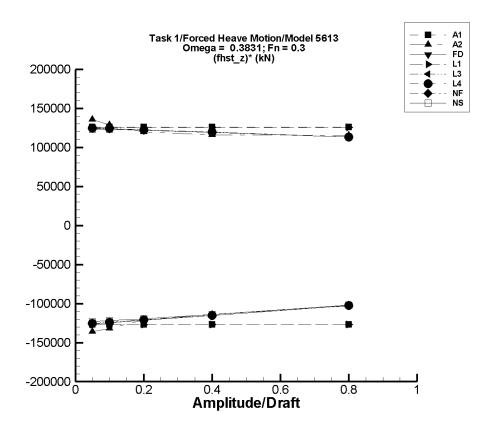


Figure K–35. Minimum and maximum of filtered $\left(F_z^{\rm hst} - \langle F_z^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–273. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle m{F}_{m{z}}^{ m hst} angle$	Unfiltered F_z^{hst}		Filtered	$\mathbf{d} \; F_{z}^{\mathrm{hst}}$	Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	7.96E+04	9.22E+04	7.96E+04	9.22E+04	-1.27E+05	1.26E+05				
.10	8.59E+04	7.32E+04	9.86E+04	7.32E+04	9.85E+04	-1.27E+05	1.26E+05				
.20	8.59E+04	6.06E+04	1.11E+05	6.05E+04	1.11E+05	-1.27E+05	1.26E+05				
.40	8.59E+04	3.53E+04	1.37E+05	3.51E+04	1.36E+05	-1.27E+05	1.26E+05				
.80	8.59E+04	-1.54E+04	1.87E+05	-1.57E+04	1.87E+05	-1.27E+05	1.26E+05				

Table K–274. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle F_z^{ m hst} angle$	Unfiltered F_z^{hst}		Filtere	d $F_z^{ m hst}$	Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.59E+04	7.91E+04	9.27E+04	7.91E+04	9.27E+04	-1.36E+05	1.35E+05				
.10	8.58E+04	7.26E+04	9.88E+04	7.26E+04	9.87E+04	-1.32E+05	1.29E+05				
.20	8.57E+04	6.15E+04	1.10E+05	6.15E+04	1.10E+05	-1.21E+05	1.19E+05				
.40	8.57E+04	4.02E+04	1.32E+05	4.01E+04	1.32E+05	-1.14E+05	1.16E+05				
.80	8.95E+04	7.38E+03	1.82E+05	7.20E+03	1.82E+05	-1.03E+05	1.15E+05				

Table K–275. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{z}^{ ext{hst}}$	Filtered $(F_z^{hst})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.53E+04	7.90E+04	9.16E+04	7.90E+04	9.15E+04	-1.25E+05	1.25E+05				
.10	8.53E+04	7.29E+04	9.78E+04	7.30E+04	9.78E+04	-1.23E+05	1.25E+05				
.20	8.55E+04	6.14E+04	1.10E+05	6.14E+04	1.10E+05	-1.20E+05	1.23E+05				
.40	8.63E+04	4.03E+04	1.34E+05	4.05E+04	1.34E+05	-1.15E+05	1.20E+05				
.80	8.96E+04	7.92E+03	1.81E+05	8.09E+03	1.81E+05	-1.02E+05	1.14E+05				

Table K–276. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle F_z^{ m hst} angle$	Unfiltered F_z^{hst}		Filtered $F_z^{\rm hst}$		Filtered $(F_z^{\text{hst}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.56E+04	7.92E+04	9.19E+04	7.93E+04	9.19E+04	-1.26E+05	1.26E+05				
.10	8.56E+04	7.29E+04	9.82E+04	7.29E+04	9.82E+04	-1.26E+05	1.26E+05				
.20	8.56E+04	6.03E+04	1.11E+05	6.03E+04	1.11E+05	-1.26E+05	1.26E+05				
.40	8.56E+04	3.50E+04	1.36E+05	3.51E+04	1.36E+05	-1.26E+05	1.26E+05				
.80	8.56E+04	-1.55E+04	1.87E+05	-1.53E+04	1.86E+05	-1.26E+05	1.26E+05				

Table K–277. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-3									
	$\langle F_z^{ m hst} angle$	Unfiltered F_z^{hst}		Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.18E+04	-1.25E+05	1.25E+05			
.10	8.56E+04	7.32E+04	9.80E+04	7.32E+04	9.80E+04	-1.24E+05	1.25E+05			
.20	8.57E+04	6.16E+04	1.10E+05	6.16E+04	1.10E+05	-1.20E+05	1.23E+05			
.40	8.65E+04	4.06E+04	1.35E+05	4.06E+04	1.34E+05	-1.15E+05	1.20E+05			
.80	8.96E+04	8.02E+03	1.81E+05	8.08E+03	1.81E+05	-1.02E+05	1.14E+05			

Table K–278. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle F_z^{ m hst} angle$	Unfiltered F_z^{hst}		Filtere	Filtered $F_z^{\rm hst}$		Filtered $(F_z^{\text{hst}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.18E+04	-1.25E+05	1.25E+05				
.10	8.56E+04	7.32E+04	9.80E+04	7.32E+04	9.80E+04	-1.24E+05	1.25E+05				
.20	8.57E+04	6.16E+04	1.10E+05	6.16E+04	1.10E+05	-1.20E+05	1.23E+05				
.40	8.65E+04	4.06E+04	1.35E+05	4.06E+04	1.34E+05	-1.15E+05	1.20E+05				
.80	8.96E+04	8.02E+03	1.81E+05	8.08E+03	1.81E+05	-1.02E+05	1.14E+05				

Table K–279. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NFA											
	$\langle F_z^{ m hst} angle$	Unfilte	$\mathbf{red} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \left(F_{z}^{\mathrm{hst}} \right)^{*}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05		_		_	_	_						
.10		_										
.20												
.40	_	_		_	_	_	_					
.80												

Table K–280. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	7.97E+04	9.21E+04	7.97E+04	9.21E+04	-1.23E+05	1.23E+05					
.10	8.60E+04	7.36E+04	9.84E+04	7.38E+04	9.83E+04	-1.22E+05	1.23E+05					
.20	8.61E+04	6.20E+04	1.11E+05	6.23E+04	1.10E+05	-1.19E+05	1.22E+05					
.40	8.69E+04	4.10E+04	1.35E+05	4.14E+04	1.35E+05	-1.14E+05	1.19E+05					
.80	9.03E+04	8.24E+03	1.82E+05	8.63E+03	1.81E+05	-1.02E+05	1.13E+05					

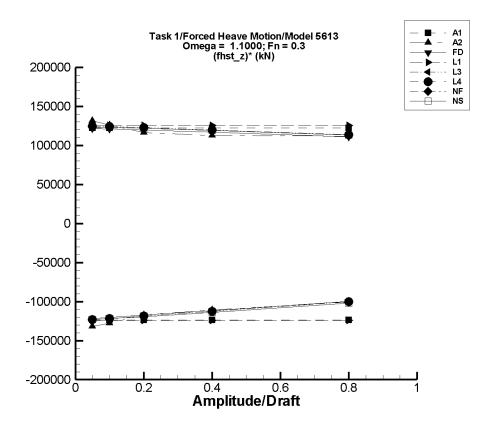


Figure K–36. Minimum and maximum of filtered $\left(F_z^{\rm hst} - \langle F_z^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–281. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-1											
	$\langle F_z^{ m hst} angle$ Unfiltered $F_z^{ m hst}$			Filtered	$\mathbf{f} F_{z}^{\mathrm{hst}}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	7.96E+04	9.22E+04	7.97E+04	9.20E+04	-1.24E+05	1.23E+05					
.10	8.59E+04	7.32E+04	9.86E+04	7.35E+04	9.82E+04	-1.24E+05	1.23E+05					
.20	8.59E+04	6.06E+04	1.11E+05	6.12E+04	1.10E+05	-1.24E+05	1.23E+05					
.40	8.59E+04	3.53E+04	1.37E+05	3.65E+04	1.35E+05	-1.24E+05	1.23E+05					
.80	8.59E+04	-1.54E+04	1.87E+05	-1.29E+04	1.84E+05	-1.24E+05	1.23E+05					

Table K–282. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-2											
	$\langle F_z^{ m hst} angle$	Unfilter	Unfiltered $F_z^{\rm hst}$		$\mathbf{d} \; F_{oldsymbol{z}}^{ ext{hst}}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	7.91E+04	9.27E+04	7.93E+04	9.25E+04	-1.32E+05	1.32E+05					
.10	8.58E+04	7.26E+04	9.87E+04	7.30E+04	9.84E+04	-1.28E+05	1.26E+05					
.20	8.57E+04	6.15E+04	1.10E+05	6.22E+04	1.09E+05	-1.17E+05	1.17E+05					
.40	8.57E+04	4.02E+04	1.32E+05	4.14E+04	1.31E+05	-1.11E+05	1.13E+05					
.80	8.95E+04	7.38E+03	1.82E+05	9.04E+03	1.79E+05	-1.01E+05	1.12E+05					

Table K–283. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{z}^{ ext{hst}}$	Filtered	Filtered $(F_z^{\text{hst}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	8.53E+04	7.90E+04	9.16E+04	7.92E+04	9.14E+04	-1.21E+05	1.22E+05				
.10	8.53E+04	7.29E+04	9.78E+04	7.33E+04	9.74E+04	-1.20E+05	1.21E+05				
.20	8.55E+04	6.14E+04	1.10E+05	6.21E+04	1.09E+05	-1.17E+05	1.20E+05				
.40	8.63E+04	4.03E+04	1.34E+05	4.16E+04	1.33E+05	-1.12E+05	1.17E+05				
.80	8.96E+04	7.92E+03	1.81E+05	9.50E+03	1.78E+05	-1.00E+05	1.11E+05				

Table K–284. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtered	$\mathbf{f} F_z^{\mathrm{hst}}$	Filtered $(oldsymbol{F_z^{ ext{hst}}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.56E+04	7.92E+04	9.19E+04	7.93E+04	9.18E+04	-1.25E+05	1.25E+05					
.10	8.56E+04	7.29E+04	9.82E+04	7.31E+04	9.80E+04	-1.25E+05	1.25E+05					
.20	8.56E+04	6.03E+04	1.11E+05	6.06E+04	1.11E+05	-1.25E+05	1.25E+05					
.40	8.56E+04	3.51E+04	1.36E+05	3.56E+04	1.36E+05	-1.25E+05	1.25E+05					
.80	8.56E+04	-1.54E+04	1.87E+05	-1.43E+04	1.85E+05	-1.25E+05	1.25E+05					

Table K–285. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-3											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	d $F_z^{ m hst}$	Filtered $(F_z^{\text{hst}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.17E+04	-1.24E+05	1.24E+05					
.10	8.56E+04	7.32E+04	9.80E+04	7.33E+04	9.79E+04	-1.22E+05	1.23E+05					
.20	8.57E+04	6.16E+04	1.10E+05	6.19E+04	1.10E+05	-1.19E+05	1.22E+05					
.40	8.65E+04	4.06E+04	1.35E+05	4.10E+04	1.34E+05	-1.14E+05	1.19E+05					
.80	8.96E+04	8.04E+03	1.81E+05	8.60E+03	1.80E+05	-1.01E+05	1.13E+05					

Table K–286. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle F_z^{ m hst} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{hst}}$	Filtere	$\mathbf{d} \; F_{z}^{ ext{hst}}$	Filtered $(F_z^{hst})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.55E+04	7.93E+04	9.18E+04	7.93E+04	9.17E+04	-1.24E+05	1.24E+05					
.10	8.56E+04	7.32E+04	9.80E+04	7.33E+04	9.79E+04	-1.22E+05	1.23E+05					
.20	8.57E+04	6.16E+04	1.10E+05	6.19E+04	1.10E+05	-1.19E+05	1.22E+05					
.40	8.65E+04	4.06E+04	1.35E+05	4.10E+04	1.34E+05	-1.14E+05	1.19E+05					
.80	8.96E+04	8.04E+03	1.81E+05	8.60E+03	1.80E+05	-1.01E+05	1.13E+05					

Table K–287. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NFA											
	$\langle F_z^{ m hst} angle$	Unfiltered F_z^{hst}		Filtered $F_z^{\rm hst}$		Filtered (F_z^{hst})						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	_	_		_	_	_						
.10	_						_					
.20	_		_	_	_	_	_					
.40	_		_		_	_	_					
.80							_					

Table K–288. Minimum and Maximum of Variables $F_z^{\rm hst}$ and $\left(F_z^{\rm hst}\right)^*=\left(F_z^{\rm hst}-\langle F_z^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle F_z^{ m hst} angle$	Unfilter	ed $F_z^{\rm hst}$	Filtere	d $F_z^{ m hst}$	Filtered	$(oldsymbol{F_z^{ ext{hst}}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	8.59E+04	7.97E+04	9.21E+04	7.97E+04	9.21E+04	-1.23E+05	1.23E+05					
.10	8.60E+04	7.36E+04	9.84E+04	7.38E+04	9.83E+04	-1.22E+05	1.23E+05					
.20	8.61E+04	6.20E+04	1.11E+05	6.23E+04	1.10E+05	-1.19E+05	1.22E+05					
.40	8.69E+04	4.10E+04	1.35E+05	4.14E+04	1.35E+05	-1.14E+05	1.19E+05					
.80	9.03E+04	8.24E+03	1.82E+05	8.63E+03	1.81E+05	-1.02E+05	1.13E+05					

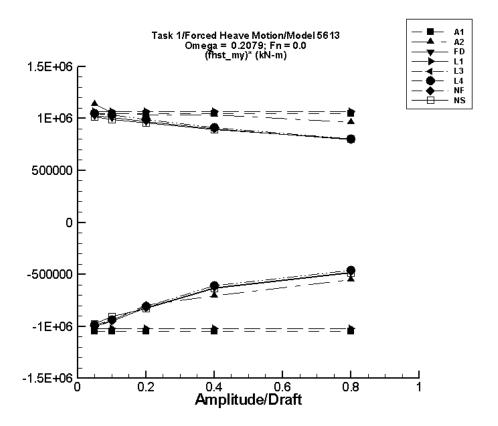


Figure K–37. Minimum and maximum of filtered $\left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–289. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-1											
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	ed $M_y^{ m hst}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	3.50E-02	-5.22E+04	5.22E+04	-5.22E+04	5.22E+04	-1.04E+06	1.04E+06					
.10	7.23E-02	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05	-1.04E+06	1.04E+06					
.20	0.146	-2.09E+05	2.09E+05	-2.09E+05	2.09E+05	-1.04E+06	1.04E+06					
.40	0.302	-4.18E+05	4.18E+05	-4.18E+05	4.17E+05	-1.04E+06	1.04E+06					
.80	0.575	-8.36E+05	8.36E+05	-8.36E+05	8.35E+05	-1.04E+06	1.04E+06					

Table K–290. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-2											
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	2.75E+03	-4.78E+04	5.96E+04	-4.78E+04	5.95E+04	-1.01E+06	1.14E+06					
.10	8.68E+03	-8.51E+04	1.14E+05	-8.51E+04	1.14E+05	-9.37E+05	1.05E+06					
.20	2.72E+04	-1.32E+05	2.35E+05	-1.32E+05	2.34E+05	-7.94E+05	1.04E+06					
.40	7.68E+04	-2.04E+05	4.90E+05	-2.05E+05	4.89E+05	-7.04E+05	1.03E+06					
.80	2.33E+05	-2.34E+05	1.00E+06	-2.08E+05	1.00E+06	-5.51E+05	9.60E+05					

Table K–291. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle M_y^{ m hst} angle$ Unfiltered $M_y^{ m hst}$			Filtered	Filtered $oldsymbol{M_{oldsymbol{u}}^{ ext{hst}}}$		$\left(oldsymbol{M_{oldsymbol{y}}^{ ext{hst}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	4.69E+03	-4.55E+04	5.60E+04	-4.55E+04	5.60E+04	-1.00E+06	1.03E+06				
.10	6.79E+03	-8.81E+04	1.08E+05	-8.80E+04	1.08E+05	-9.48E+05	1.01E+06				
.20	1.74E+04	-1.48E+05	2.12E+05	-1.47E+05	2.12E+05	-8.24E+05	9.71E+05				
.40	5.80E+04	-1.94E+05	4.19E+05	-1.94E+05	4.18E+05	-6.30E+05	9.00E+05				
.80	1.91E+05	-1.94E+05	8.30E+05	-1.93E+05	8.29E+05	-4.81E+05	7.97E+05				

Table K–292. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-1											
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{hst}} \end{pmatrix}^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	3.33E-02	-5.22E+04	5.22E+04	-5.22E+04	5.22E+04	-1.04E+06	1.04E+06					
.10	5.86E-02	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05	-1.04E+06	1.04E+06					
.20	0.152	-2.09E+05	2.09E+05	-2.09E+05	2.09E+05	-1.04E+06	1.04E+06					
.40	0.230	-4.18E+05	4.18E+05	-4.17E+05	4.17E+05	-1.04E+06	1.04E+06					
.80	0.525	-8.35E+05	8.35E+05	-8.35E+05	8.35E+05	-1.04E+06	1.04E+06					

Table K–293. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle M_y^{ m hst} angle$ Unfiltered $M_y^{ m hst}$			Filtered	Filtered $oldsymbol{M_{oldsymbol{y}}^{ ext{hst}}}$		$\left(oldsymbol{M_{oldsymbol{y}}^{ ext{hst}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-962.	-5.15E+04	5.05E+04	-5.15E+04	5.05E+04	-1.01E+06	1.03E+06				
.10	931.	-9.45E+04	1.02E+05	-9.45E+04	1.02E+05	-9.54E+05	1.01E+06				
.20	1.11E+04	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05	-8.26E+05	9.69E+05				
.40	5.10E+04	-2.01E+05	4.09E+05	-2.01E+05	4.09E+05	-6.30E+05	8.94E+05				
.80	1.81E+05	-2.01E+05	8.07E+05	-2.02E+05	8.06E+05	-4.79E+05	7.81E+05				

Table K–294. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-4											
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-962.	-5.15E+04	5.05E+04	-5.15E+04	5.05E+04	-1.01E+06	1.03E+06					
.10	931.	-9.45E+04	1.02E+05	-9.45E+04	1.02E+05	-9.54E+05	1.01E+06					
.20	1.11E+04	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05	-8.26E+05	9.69E+05					
.40	5.10E+04	-2.01E+05	4.09E+05	-2.01E+05	4.09E+05	-6.30E+05	8.94E+05					
.80	1.81E+05	-2.01E+05	8.07E+05	-2.02E+05	8.06E+05	-4.79E+05	7.81E+05					

Table K–295. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\left\langle M_y^{\rm hst}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NFA										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{ed} \; M_{m{y}}^{ ext{hst}}$	Filtered	$\mathbf{d} \; M^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)$					
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min.	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)				
.05	(KI (-III)	(KI (-III)		— (KI (-III)		— (KI (-III)	— (KI (-III)				
.10	_					_					
.20	_										
.40	_					_					
.80						_					

Table K–296. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NSHIPMO											
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M_y^{ ext{hst}}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	158.	-4.88E+04	5.14E+04	-4.85E+04	5.09E+04	-9.73E+05	1.01E+06					
.10	3.57E+03	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05	-9.07E+05	9.89E+05					
.20	1.40E+04	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05	-8.25E+05	9.56E+05					
.40	5.55E+04	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05	-6.35E+05	8.92E+05					
.80	1.92E+05	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05	-4.84E+05	8.01E+05					

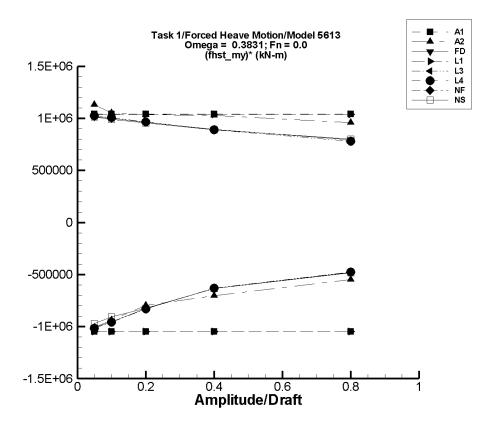


Figure K–38. Minimum and maximum of filtered $\left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–297. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-2.41E-03	-5.22E+04	5.22E+04	-5.24E+04	5.20E+04	-1.05E+06	1.04E+06				
.10	4.44E-04	-1.04E+05	1.04E+05	-1.05E+05	1.04E+05	-1.05E+06	1.04E+06				
.20	2.14E-06	-2.09E+05	2.09E+05	-2.09E+05	2.08E+05	-1.05E+06	1.04E+06				
.40	-1.24E-02	-4.18E+05	4.18E+05	-4.19E+05	4.16E+05	-1.05E+06	1.04E+06				
.80	8.56E-03	-8.36E+05	8.36E+05	-8.38E+05	8.33E+05	-1.05E+06	1.04E+06				

Table K–298. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $ig(M_{m{y}}^{ ext{hst}}ig)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	2.75E+03	-4.78E+04	5.96E+04	-4.78E+04	5.93E+04	-1.01E+06	1.13E+06				
.10	8.68E+03	-8.51E+04	1.14E+05	-8.52E+04	1.14E+05	-9.39E+05	1.05E+06				
.20	2.71E+04	-1.32E+05	2.35E+05	-1.32E+05	2.34E+05	-7.95E+05	1.03E+06				
.40	7.69E+04	-2.04E+05	4.90E+05	-2.05E+05	4.88E+05	-7.05E+05	1.03E+06				
.80	2.33E+05	-2.10E+05	1.00E+06	-2.07E+05	9.98E+05	-5.49E+05	9.57E+05				

Table K–299. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle M_y^{ m hst} angle$ Unfiltered $M_y^{ m hst}$			Filtered	Filtered $oldsymbol{M_{oldsymbol{u}}^{ ext{hst}}}$		Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	4.69E+03	-4.55E+04	5.60E+04	-4.54E+04	5.58E+04	-1.00E+06	1.02E+06				
.10	6.78E+03	-8.81E+04	1.08E+05	-8.78E+04	1.08E+05	-9.46E+05	1.01E+06				
.20	1.73E+04	-1.47E+05	2.12E+05	-1.47E+05	2.11E+05	-8.22E+05	9.68E+05				
.40	5.79E+04	-1.94E+05	4.19E+05	-1.94E+05	4.17E+05	-6.29E+05	8.98E+05				
.80	1.91E+05	-1.94E+05	8.30E+05	-1.92E+05	8.27E+05	-4.78E+05	7.95E+05				

Table K–300. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-1											
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	ed $m{M}^{ ext{hst}}_{m{y}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(M_{m{y}}^{ ext{hst}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	7.03E-02	-5.22E+04	5.22E+04	-5.21E+04	5.21E+04	-1.04E+06	1.04E+06					
.10	0.136	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05	-1.04E+06	1.04E+06					
.20	0.255	-2.09E+05	2.09E+05	-2.08E+05	2.08E+05	-1.04E+06	1.04E+06					
.40	0.596	-4.18E+05	4.18E+05	-4.17E+05	4.17E+05	-1.04E+06	1.04E+06					
.80	1.15	-8.35E+05	8.35E+05	-8.34E+05	8.34E+05	-1.04E+06	1.04E+06					

Table K–301. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-3											
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	$M_{m{y}}^{ ext{hst}}$	Filtered $\left(M_{m{y}}^{ ext{hst}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-968.	-5.15E+04	5.05E+04	-5.15E+04	5.04E+04	-1.01E+06	1.03E+06					
.10	896.	-9.45E+04	1.02E+05	-9.44E+04	1.02E+05	-9.53E+05	1.01E+06					
.20	1.09E+04	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05	-8.25E+05	9.69E+05					
.40	5.01E+04	-2.01E+05	4.09E+05	-2.01E+05	4.08E+05	-6.28E+05	8.95E+05					
.80	1.79E+05	-2.01E+05	8.07E+05	-2.00E+05	8.06E+05	-4.74E+05	7.84E+05					

Table K–302. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-968.	-5.15E+04	5.05E+04	-5.15E+04	5.04E+04	-1.01E+06	1.03E+06				
.10	896.	-9.45E+04	1.02E+05	-9.44E+04	1.02E+05	-9.53E+05	1.01E+06				
.20	1.09E+04	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05	-8.25E+05	9.69E+05				
.40	5.01E+04	-2.01E+05	4.09E+05	-2.01E+05	4.08E+05	-6.28E+05	8.95E+05				
.80	1.79E+05	-2.01E+05	8.07E+05	-2.00E+05	8.06E+05	-4.74E+05	7.84E+05				

Table K–303. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\left\langle M_y^{\rm hst}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NFA										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M^{ ext{hst}}_{m{y}}$	Filtered	$m{M}_{m{y}}^{ ext{hst}}$	Filtered $\left(M_{m{y}}^{ ext{hst}}\right)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	_	_		_	_	_					
.10	_	_	_	_		_					
.20			_	_		_					
.40			_	_		_					
.80	_		—								

Table K–304. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle oldsymbol{M_y^{ ext{hst}}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	$m{M_y^{ ext{hst}}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	145.	-4.88E+04	5.14E+04	-4.85E+04	5.08E+04	-9.72E+05	1.01E+06				
.10	3.55E+03	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05	-9.07E+05	9.89E+05				
.20	1.40E+04	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05	-8.24E+05	9.56E+05				
.40	5.55E+04	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05	-6.35E+05	8.92E+05				
.80	1.92E+05	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05	-4.84E+05	8.01E+05				

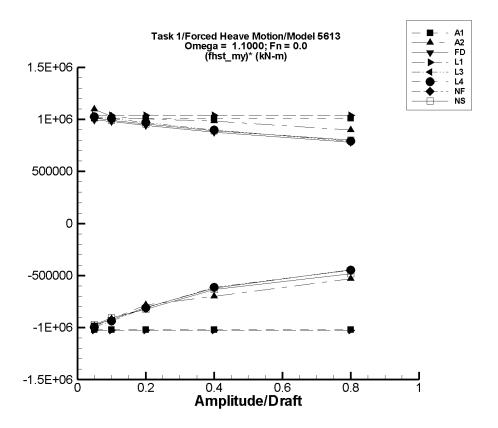


Figure K–39. Minimum and maximum of filtered $\left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–305. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M_y^{ ext{hst}}}$	Filtered	$\left(oldsymbol{M_{oldsymbol{y}}^{ ext{hst}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	5.85E-02	-5.22E+04	5.22E+04	-5.10E+04	5.06E+04	-1.02E+06	1.01E+06				
.10	0.109	-1.04E+05	1.04E+05	-1.02E+05	1.01E+05	-1.02E+06	1.01E+06				
.20	0.218	-2.09E+05	2.09E+05	-2.04E+05	2.02E+05	-1.02E+06	1.01E+06				
.40	0.446	-4.18E+05	4.17E+05	-4.08E+05	4.05E+05	-1.02E+06	1.01E+06				
.80	0.905	-8.36E+05	8.35E+05	-8.15E+05	8.09E+05	-1.02E+06	1.01E+06				

Table K–306. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-2											
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	2.75E+03	-4.78E+04	5.95E+04	-4.65E+04	5.77E+04	-9.85E+05	1.10E+06					
.10	8.66E+03	-8.51E+04	1.14E+05	-8.28E+04	1.11E+05	-9.14E+05	1.03E+06					
.20	2.71E+04	-1.32E+05	2.34E+05	-1.29E+05	2.28E+05	-7.82E+05	1.00E+06					
.40	7.69E+04	-2.04E+05	4.90E+05	-2.03E+05	4.70E+05	-7.01E+05	9.83E+05					
.80	2.31E+05	-2.34E+05	1.00E+06	-1.94E+05	9.50E+05	-5.31E+05	8.98E+05					

Table K–307. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M_y^{ ext{hst}}}$	Filtered	$\left(oldsymbol{M_y^{ ext{hst}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	4.69E+03	-4.55E+04	5.60E+04	-4.41E+04	5.44E+04	-9.75E+05	9.94E+05				
.10	6.78E+03	-8.81E+04	1.08E+05	-8.57E+04	1.05E+05	-9.25E+05	9.79E+05				
.20	1.73E+04	-1.48E+05	2.11E+05	-1.44E+05	2.05E+05	-8.09E+05	9.39E+05				
.40	5.78E+04	-1.94E+05	4.18E+05	-1.93E+05	4.05E+05	-6.27E+05	8.69E+05				
.80	1.91E+05	-1.94E+05	8.29E+05	-1.75E+05	8.03E+05	-4.57E+05	7.66E+05				

Table K–308. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(M_{m{y}}^{ ext{hst}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	0.113	-5.22E+04	5.22E+04	-5.16E+04	5.16E+04	-1.03E+06	1.03E+06				
.10	0.220	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05	-1.03E+06	1.03E+06				
.20	0.437	-2.09E+05	2.09E+05	-2.06E+05	2.06E+05	-1.03E+06	1.03E+06				
.40	0.902	-4.17E+05	4.17E+05	-4.13E+05	4.13E+05	-1.03E+06	1.03E+06				
.80	1.86	-8.35E+05	8.35E+05	-8.25E+05	8.26E+05	-1.03E+06	1.03E+06				

Table K–309. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-3											
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M_y^{ ext{hst}}}$	Filtered	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-966.	-5.15E+04	5.05E+04	-5.10E+04	4.99E+04	-1.00E+06	1.02E+06					
.10	909.	-9.45E+04	1.02E+05	-9.36E+04	1.01E+05	-9.45E+05	1.00E+06					
.20	1.10E+04	-1.54E+05	2.05E+05	-1.53E+05	2.03E+05	-8.20E+05	9.59E+05					
.40	5.03E+04	-2.01E+05	4.09E+05	-2.01E+05	4.04E+05	-6.28E+05	8.84E+05					
.80	1.79E+05	-2.01E+05	8.06E+05	-1.95E+05	7.98E+05	-4.67E+05	7.73E+05					

Table K–310. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-4											
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(M_{m{y}}^{ ext{hst}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-966.	-5.15E+04	5.05E+04	-5.10E+04	4.99E+04	-1.00E+06	1.02E+06					
.10	909.	-9.45E+04	1.02E+05	-9.36E+04	1.01E+05	-9.45E+05	1.00E+06					
.20	1.10E+04	-1.54E+05	2.05E+05	-1.53E+05	2.03E+05	-8.20E+05	9.59E+05					
.40	5.03E+04	-2.01E+05	4.09E+05	-2.01E+05	4.04E+05	-6.28E+05	8.84E+05					
.80	1.79E+05	-2.01E+05	8.06E+05	-1.95E+05	7.98E+05	-4.67E+05	7.73E+05					

Table K–311. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\left\langle M_y^{\rm hst}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NFA										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{ed} \; M_{m{y}}^{ ext{hst}}$	Filtered	$\mathbf{d} \; M^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_{oldsymbol{y}}^{ ext{hst}}} ight)$					
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min.	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)				
.05	(KI (-III)	(KI (-III)		— (KI (-III)		— (KI (-III)	— (KI (-III)				
.10	_					_					
.20	_										
.40	_					_					
.80						_					

Table K–312. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	$m{M_y^{ ext{hst}}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	145.	-4.88E+04	5.14E+04	-4.85E+04	5.08E+04	-9.72E+05	1.01E+06				
.10	3.55E+03	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05	-9.07E+05	9.89E+05				
.20	1.40E+04	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05	-8.24E+05	9.56E+05				
.40	5.55E+04	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05	-6.35E+05	8.92E+05				
.80	1.92E+05	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05	-4.84E+05	8.01E+05				

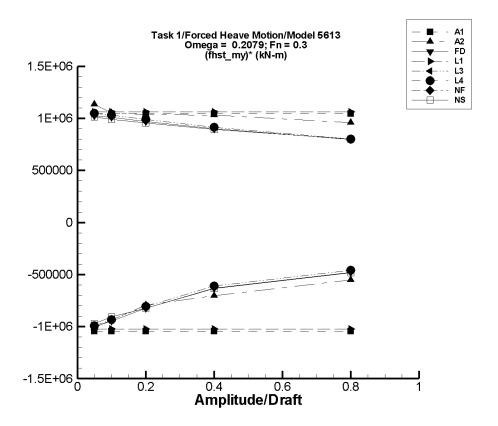


Figure K–40. Minimum and maximum of filtered $\left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–313. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M_y^{ ext{hst}}}$	Filtered	$\left(oldsymbol{M_{oldsymbol{y}}^{ ext{hst}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	3.50E-02	-5.22E+04	5.22E+04	-5.22E+04	5.22E+04	-1.04E+06	1.04E+06				
.10	7.23E-02	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05	-1.04E+06	1.04E+06				
.20	0.146	-2.09E+05	2.09E+05	-2.09E+05	2.09E+05	-1.04E+06	1.04E+06				
.40	0.302	-4.18E+05	4.18E+05	-4.18E+05	4.17E+05	-1.04E+06	1.04E+06				
.80	0.575	-8.36E+05	8.36E+05	-8.36E+05	8.35E+05	-1.04E+06	1.04E+06				

Table K–314. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $ig(M_{m{y}}^{ ext{hst}}ig)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	2.75E+03	-4.78E+04	5.96E+04	-4.77E+04	5.95E+04	-1.01E+06	1.14E+06				
.10	8.68E+03	-8.51E+04	1.14E+05	-8.51E+04	1.14E+05	-9.37E+05	1.05E+06				
.20	2.72E+04	-1.32E+05	2.35E+05	-1.32E+05	2.34E+05	-7.94E+05	1.04E+06				
.40	7.68E+04	-2.04E+05	4.90E+05	-2.05E+05	4.89E+05	-7.04E+05	1.03E+06				
.80	2.33E+05	-2.34E+05	1.00E+06	-2.08E+05	1.00E+06	-5.51E+05	9.60E+05				

Table K–315. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	FREDYN											
	$\langle oldsymbol{M_y^{ ext{hst}}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	4.69E+03	-4.55E+04	5.60E+04	-4.55E+04	5.60E+04	-1.00E+06	1.03E+06					
.10	6.79E+03	-8.81E+04	1.08E+05	-8.80E+04	1.08E+05	-9.48E+05	1.01E+06					
.20	1.74E+04	-1.48E+05	2.12E+05	-1.47E+05	2.12E+05	-8.24E+05	9.71E+05					
.40	5.80E+04	-1.94E+05	4.19E+05	-1.94E+05	4.18E+05	-6.30E+05	9.00E+05					
.80	1.91E+05	-1.94E+05	8.30E+05	-1.93E+05	8.29E+05	-4.81E+05	7.97E+05					

Table K–316. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{hst}} \end{pmatrix}^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	3.33E-02	-5.22E+04	5.22E+04	-5.22E+04	5.22E+04	-1.04E+06	1.04E+06					
.10	5.86E-02	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05	-1.04E+06	1.04E+06					
.20	0.152	-2.09E+05	2.09E+05	-2.09E+05	2.09E+05	-1.04E+06	1.04E+06					
.40	0.230	-4.18E+05	4.18E+05	-4.17E+05	4.17E+05	-1.04E+06	1.04E+06					
.80	0.525	-8.35E+05	8.35E+05	-8.35E+05	8.35E+05	-1.04E+06	1.04E+06					

Table K–317. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M_y^{ ext{hst}}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-963.	-5.15E+04	5.05E+04	-5.15E+04	5.05E+04	-1.01E+06	1.03E+06				
.10	929.	-9.45E+04	1.02E+05	-9.45E+04	1.02E+05	-9.54E+05	1.01E+06				
.20	1.11E+04	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05	-8.26E+05	9.69E+05				
.40	5.10E+04	-2.01E+05	4.09E+05	-2.01E+05	4.09E+05	-6.30E+05	8.94E+05				
.80	1.81E+05	-2.01E+05	8.07E+05	-2.02E+05	8.06E+05	-4.79E+05	7.81E+05				

Table K–318. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(M_{m{y}}^{ ext{hst}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-963.	-5.15E+04	5.05E+04	-5.15E+04	5.05E+04	-1.01E+06	1.03E+06					
.10	929.	-9.45E+04	1.02E+05	-9.45E+04	1.02E+05	-9.54E+05	1.01E+06					
.20	1.11E+04	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05	-8.26E+05	9.69E+05					
.40	5.10E+04	-2.01E+05	4.09E+05	-2.01E+05	4.09E+05	-6.30E+05	8.94E+05					
.80	1.81E+05	-2.01E+05	8.07E+05	-2.02E+05	8.06E+05	-4.79E+05	7.81E+05					

Table K–319. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NFA										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	$m{M}_{m{y}}^{ ext{hst}}$	Filtered	$\left(oldsymbol{M_{oldsymbol{y}}^{ ext{hst}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	_	_		_	_	_					
.10	_	_	_	_		_					
.20	—		_	_		_					
.40	_		_	_		_					
.80			—								

Table K–320. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M_y^{ ext{hst}}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	158.	-4.88E+04	5.14E+04	-4.85E+04	5.09E+04	-9.73E+05	1.01E+06				
.10	3.57E+03	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05	-9.07E+05	9.89E+05				
.20	1.40E+04	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05	-8.25E+05	9.56E+05				
.40	5.55E+04	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05	-6.35E+05	8.92E+05				
.80	1.92E+05	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05	-4.84E+05	8.01E+05				

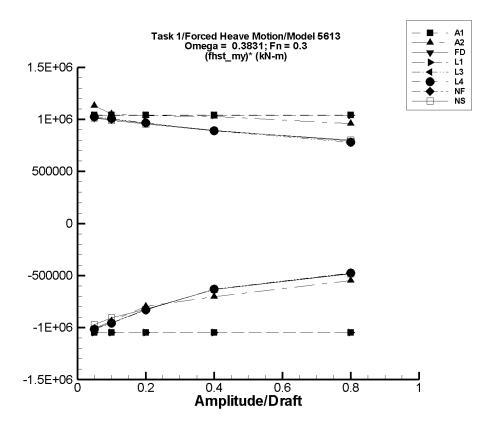


Figure K–41. Minimum and maximum of filtered $\left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–321. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(M_{m{y}}^{ ext{hst}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-2.41E-03	-5.22E+04	5.22E+04	-5.24E+04	5.20E+04	-1.05E+06	1.04E+06				
.10	4.44E-04	-1.04E+05	1.04E+05	-1.05E+05	1.04E+05	-1.05E+06	1.04E+06				
.20	2.14E-06	-2.09E+05	2.09E+05	-2.09E+05	2.08E+05	-1.05E+06	1.04E+06				
.40	-1.24E-02	-4.18E+05	4.18E+05	-4.19E+05	4.16E+05	-1.05E+06	1.04E+06				
.80	8.56E-03	-8.36E+05	8.36E+05	-8.38E+05	8.33E+05	-1.05E+06	1.04E+06				

Table K–322. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	2.75E+03	-4.78E+04	5.96E+04	-4.78E+04	5.93E+04	-1.01E+06	1.13E+06				
.10	8.68E+03	-8.51E+04	1.14E+05	-8.52E+04	1.14E+05	-9.39E+05	1.05E+06				
.20	2.71E+04	-1.32E+05	2.35E+05	-1.32E+05	2.34E+05	-7.95E+05	1.03E+06				
.40	7.69E+04	-2.04E+05	4.90E+05	-2.05E+05	4.88E+05	-7.05E+05	1.03E+06				
.80	2.33E+05	-2.10E+05	1.00E+06	-2.07E+05	9.98E+05	-5.49E+05	9.57E+05				

Table K–323. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	FREDYN											
	$\langle oldsymbol{M_y^{ ext{hst}}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	$m{M_y^{ ext{hst}}}$	Filtered $\left(M_y^{ ext{hst}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	4.69E+03	-4.55E+04	5.60E+04	-4.54E+04	5.58E+04	-1.00E+06	1.02E+06					
.10	6.78E+03	-8.81E+04	1.08E+05	-8.78E+04	1.08E+05	-9.46E+05	1.01E+06					
.20	1.73E+04	-1.47E+05	2.12E+05	-1.47E+05	2.11E+05	-8.22E+05	9.68E+05					
.40	5.79E+04	-1.94E+05	4.19E+05	-1.94E+05	4.17E+05	-6.29E+05	8.98E+05					
.80	1.91E+05	-1.94E+05	8.30E+05	-1.92E+05	8.27E+05	-4.78E+05	7.95E+05					

Table K–324. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle M_y^{ m hst} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{hst}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	7.03E-02	-5.22E+04	5.22E+04	-5.21E+04	5.21E+04	-1.04E+06	1.04E+06					
.10	0.136	-1.04E+05	1.04E+05	-1.04E+05	1.04E+05	-1.04E+06	1.04E+06					
.20	0.255	-2.09E+05	2.09E+05	-2.08E+05	2.08E+05	-1.04E+06	1.04E+06					
.40	0.596	-4.18E+05	4.18E+05	-4.17E+05	4.17E+05	-1.04E+06	1.04E+06					
.80	1.15	-8.35E+05	8.35E+05	-8.34E+05	8.34E+05	-1.04E+06	1.04E+06					

Table K–325. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	$M_{m{y}}^{ m hst}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-968.	-5.15E+04	5.05E+04	-5.15E+04	5.04E+04	-1.01E+06	1.03E+06				
.10	896.	-9.45E+04	1.02E+05	-9.44E+04	1.02E+05	-9.53E+05	1.01E+06				
.20	1.09E+04	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05	-8.25E+05	9.69E+05				
.40	5.01E+04	-2.01E+05	4.09E+05	-2.01E+05	4.08E+05	-6.28E+05	8.95E+05				
.80	1.79E+05	-2.01E+05	8.07E+05	-2.00E+05	8.06E+05	-4.74E+05	7.84E+05				

Table K–326. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M}^{ ext{hst}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-968.	-5.15E+04	5.05E+04	-5.15E+04	5.04E+04	-1.01E+06	1.03E+06					
.10	896.	-9.45E+04	1.02E+05	-9.44E+04	1.02E+05	-9.53E+05	1.01E+06					
.20	1.09E+04	-1.54E+05	2.05E+05	-1.54E+05	2.05E+05	-8.25E+05	9.69E+05					
.40	5.01E+04	-2.01E+05	4.09E+05	-2.01E+05	4.08E+05	-6.28E+05	8.95E+05					
.80	1.79E+05	-2.01E+05	8.07E+05	-2.00E+05	8.06E+05	-4.74E+05	7.84E+05					

Table K–327. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NFA									
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered $oldsymbol{M_{oldsymbol{y}}^{ ext{hst}}}$		Filtered $\left(M_y^{ ext{hst}} ight)^*$				
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min.	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)			
.05	(KI (-III)	(KI (-III)	— (Kr (-III)	— (KI (-III)		(KI (-III)	— (KI (-III)			
.10	_					_				
.20	_									
.40	_					_	_			
.80						_				

Table K–328. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle oldsymbol{M_y^{ ext{hst}}} angle$	Unfiltered $oldsymbol{M_y^{ ext{hst}}}$		Filtered	Filtered $oldsymbol{M_y^{ ext{hst}}}$		Filtered $\left(M_y^{ ext{hst}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	145.	-4.88E+04	5.14E+04	-4.85E+04	5.08E+04	-9.72E+05	1.01E+06				
.10	3.55E+03	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05	-9.07E+05	9.89E+05				
.20	1.40E+04	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05	-8.24E+05	9.56E+05				
.40	5.55E+04	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05	-6.35E+05	8.92E+05				
.80	1.92E+05	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05	-4.84E+05	8.01E+05				

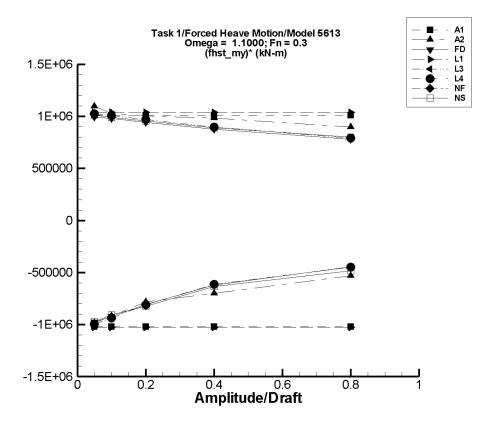


Figure K–42. Minimum and maximum of filtered $\left(M_y^{\rm hst} - \langle M_y^{\rm hst} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–329. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	ed $M_y^{ m hst}$	Filtered	Filtered $oldsymbol{M_{u}^{ ext{hst}}}$		Filtered $\left(M_{m{y}}^{ ext{hst}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	5.85E-02	-5.22E+04	5.22E+04	-5.10E+04	5.06E+04	-1.02E+06	1.01E+06				
.10	0.109	-1.04E+05	1.04E+05	-1.02E+05	1.01E+05	-1.02E+06	1.01E+06				
.20	0.218	-2.09E+05	2.09E+05	-2.04E+05	2.02E+05	-1.02E+06	1.01E+06				
.40	0.446	-4.18E+05	4.17E+05	-4.08E+05	4.05E+05	-1.02E+06	1.01E+06				
.80	0.905	-8.36E+05	8.35E+05	-8.15E+05	8.09E+05	-1.02E+06	1.01E+06				

Table K–330. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	Unfiltered $M_u^{ m hst}$		Filtered $oldsymbol{M_{oldsymbol{y}}^{ ext{hst}}}$		Filtered $\left(M_{m{y}}^{ ext{hst}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	2.75E+03	-4.78E+04	5.95E+04	-4.65E+04	5.77E+04	-9.85E+05	1.10E+06				
.10	8.66E+03	-8.51E+04	1.14E+05	-8.28E+04	1.11E+05	-9.14E+05	1.03E+06				
.20	2.71E+04	-1.32E+05	2.34E+05	-1.29E+05	2.28E+05	-7.82E+05	1.00E+06				
.40	7.69E+04	-2.04E+05	4.90E+05	-2.03E+05	4.70E+05	-7.01E+05	9.83E+05				
.80	2.31E+05	-2.34E+05	1.00E+06	-1.94E+05	9.50E+05	-5.31E+05	8.98E+05				

Table K–331. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M_y^{ ext{hst}}}$	Filtered $egin{pmatrix} M_{m{y}}^{ ext{hst}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	4.69E+03	-4.55E+04	5.60E+04	-4.41E+04	5.44E+04	-9.75E+05	9.94E+05				
.10	6.78E+03	-8.81E+04	1.08E+05	-8.57E+04	1.05E+05	-9.25E+05	9.79E+05				
.20	1.73E+04	-1.48E+05	2.11E+05	-1.44E+05	2.05E+05	-8.09E+05	9.39E+05				
.40	5.78E+04	-1.94E+05	4.18E+05	-1.93E+05	4.05E+05	-6.27E+05	8.69E+05				
.80	1.91E+05	-1.94E+05	8.29E+05	-1.75E+05	8.03E+05	-4.57E+05	7.66E+05				

Table K–332. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	Filtered $oldsymbol{M}_{oldsymbol{u}}^{ ext{hst}}$		Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	0.113	-5.22E+04	5.22E+04	-5.16E+04	5.16E+04	-1.03E+06	1.03E+06				
.10	0.220	-1.04E+05	1.04E+05	-1.03E+05	1.03E+05	-1.03E+06	1.03E+06				
.20	0.437	-2.09E+05	2.09E+05	-2.06E+05	2.06E+05	-1.03E+06	1.03E+06				
.40	0.902	-4.17E+05	4.17E+05	-4.13E+05	4.13E+05	-1.03E+06	1.03E+06				
.80	1.86	-8.35E+05	8.35E+05	-8.25E+05	8.26E+05	-1.03E+06	1.03E+06				

Table K–333. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{hst}}$	Filtered	l $m{M_y^{ ext{hst}}}$	Filtered $\left(M_{m{y}}^{ ext{hst}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-966.	-5.15E+04	5.05E+04	-5.10E+04	4.99E+04	-1.00E+06	1.02E+06				
.10	909.	-9.45E+04	1.02E+05	-9.36E+04	1.01E+05	-9.45E+05	1.00E+06				
.20	1.10E+04	-1.54E+05	2.05E+05	-1.53E+05	2.03E+05	-8.20E+05	9.59E+05				
.40	5.03E+04	-2.01E+05	4.09E+05	-2.01E+05	4.04E+05	-6.28E+05	8.84E+05				
.80	1.79E+05	-2.01E+05	8.06E+05	-1.95E+05	7.98E+05	-4.67E+05	7.73E+05				

Table K–334. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltered $M_{m{y}}^{ ext{hst}}$		Filtered $oldsymbol{M_y^{ ext{hst}}}$		Filtered $\left(M_{m{y}}^{ ext{hst}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-966.	-5.15E+04	5.05E+04	-5.10E+04	4.99E+04	-1.00E+06	1.02E+06				
.10	909.	-9.45E+04	1.02E+05	-9.36E+04	1.01E+05	-9.45E+05	1.00E+06				
.20	1.10E+04	-1.54E+05	2.05E+05	-1.53E+05	2.03E+05	-8.20E+05	9.59E+05				
.40	5.03E+04	-2.01E+05	4.09E+05	-2.01E+05	4.04E+05	-6.28E+05	8.84E+05				
.80	1.79E+05	-2.01E+05	8.06E+05	-1.95E+05	7.98E+05	-4.67E+05	7.73E+05				

Table K–335. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\left\langle M_y^{\rm hst}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NFA									
	$\langle M_{m{y}}^{ ext{hst}} angle$	Unfilter	$\mathbf{ed} \; M_{m{y}}^{ ext{hst}}$	Filtered	Filtered $M_{m{u}}^{ ext{hst}}$		$\left(oldsymbol{M_{oldsymbol{y}}^{ ext{hst}}} ight)^{oldsymbol{st}}$			
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)			
.05	_	_	_	_		_				
.10						_	_			
.20										
.40	_	_	_	_	_	_	_			
.80	_	_	_	_	_	_	_			

Table K–336. Minimum and Maximum of Variables $M_y^{\rm hst}$ and $\left(M_y^{\rm hst}\right)^*=\left(M_y^{\rm hst}-\langle M_y^{\rm hst}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle oldsymbol{M}^{ ext{hst}}_{oldsymbol{y}} angle$	Unfiltered $M_y^{ m hst}$		Filtered $oldsymbol{M_y^{ ext{hst}}}$		Filtered $\left(oldsymbol{M_y^{ ext{hst}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	145.	-4.88E+04	5.14E+04	-4.85E+04	5.08E+04	-9.72E+05	1.01E+06				
.10	3.55E+03	-8.79E+04	1.03E+05	-8.71E+04	1.02E+05	-9.07E+05	9.89E+05				
.20	1.40E+04	-1.51E+05	2.07E+05	-1.51E+05	2.05E+05	-8.24E+05	9.56E+05				
.40	5.55E+04	-1.99E+05	4.16E+05	-1.98E+05	4.12E+05	-6.35E+05	8.92E+05				
.80	1.92E+05	-1.99E+05	8.40E+05	-1.95E+05	8.33E+05	-4.84E+05	8.01E+05				

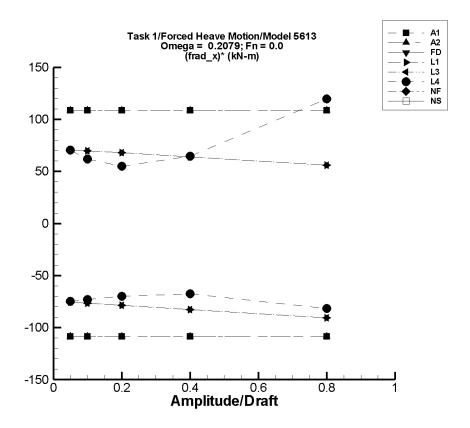


Figure K–43. Minimum and maximum of filtered $\left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–337. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle F_{m{x}}^{ m rad} angle$	Unfiltered F_x^{rad}		Filtered $F_x^{\rm rad}$		Filtered	$\mathbf{d} \left(F_{m{x}}^{\mathrm{rad}} \right)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-1.04E-03	-5.43	5.45	-5.42	5.43	-108.	109.				
.10	-2.07E-03	-10.9	10.9	-10.8	10.9	-108.	109.				
.20	-4.14E-03	-21.7	21.8	-21.7	21.7	-108.	109.				
.40	-8.28E-03	-43.5	43.6	-43.4	43.4	-108.	109.				
.80	-1.66E-02	-86.9	87.3	-86.7	86.8	-108.	109.				

Table K–338. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtered $F_x^{\rm rad}$		Filtered	$\left(oldsymbol{F_x^{ m rad}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-1.04E-03	-5.43	5.45	-5.42	5.43	-108.	109.				
.10	-2.07E-03	-10.9	10.9	-10.8	10.9	-108.	109.				
.20	-4.14E-03	-21.7	21.8	-21.7	21.7	-108.	109.				
.40	-8.28E-03	-43.5	43.6	-43.4	43.4	-108.	109.				
.80	-1.66E-02	-86.9	87.3	-86.7	86.8	-108.	109.				

Table K–339. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered F_x^{rad}		Filtered F_x^{rad}		Filtered	$(oldsymbol{F_x^{\mathrm{rad}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_	_	_	_				
.10	_					_	_				
.20	_					_					
.40	_	_		_		_	_				
.80	_					_					

Table K–340. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtered $F_x^{\rm rad}$		Filtered	$\left(oldsymbol{F_{x}^{\mathrm{rad}}} ight)^{oldsymbol{*}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	4.87E-02	-3.66	3.66	-3.66	3.66	-74.2	72.3				
.10	0.195	-7.33	7.33	-7.33	7.33	-75.2	71.3				
.20	0.779	-14.7	14.7	-14.6	14.7	-77.1	69.4				
.40	3.12	-29.3	29.3	-29.3	29.3	-81.0	65.5				
.80	12.5	-58.6	58.8	-58.6	58.8	-88.8	57.9				

Table K–341. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtered $F_x^{\rm rad}$		Filtered	$l_{m{x}}(m{F}_{m{x}}^{\mathrm{rad}})^{m{*}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	4.87E-02	-3.66	3.66	-3.66	3.66	-74.2	72.3				
.10	0.195	-7.33	7.33	-7.33	7.33	-75.2	71.3				
.20	0.779	-14.7	14.7	-14.6	14.7	-77.1	69.4				
.40	3.12	-29.3	29.3	-29.3	29.3	-81.0	65.5				
.80	12.5	-58.6	58.8	-58.6	58.8	-88.8	57.9				

Table K–342. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtered F_x^{rad}		Filtered	$\left(oldsymbol{F_x^{ m rad}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	0.124	-3.54	3.72	-3.54	3.72	-73.3	71.9				
.10	0.442	-6.73	6.79	-6.72	6.78	-71.7	63.4				
.20	1.54	-12.2	15.7	-12.2	12.9	-68.5	56.5				
.40	5.53	-23.0	38.3	-20.8	32.1	-65.8	66.4				
.80	17.7	-69.0	131.	-46.2	115.	-79.9	121.				

Table K–343. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NFA										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_{m{x}}^{ m rad}$		Filtered F_x^{rad}		Filtered (F_x^{rad})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_		_	_				
.10						_	_				
.20						_	_				
.40						_	_				
.80						_	_				

Table K–344. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_{m{x}}^{ m rad}$		Filtered F_{x}^{rad}		Filtered (F_x^{rad})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_			_	_	_				
.10						_	_				
.20						_	_				
.40						_	_				
.80											

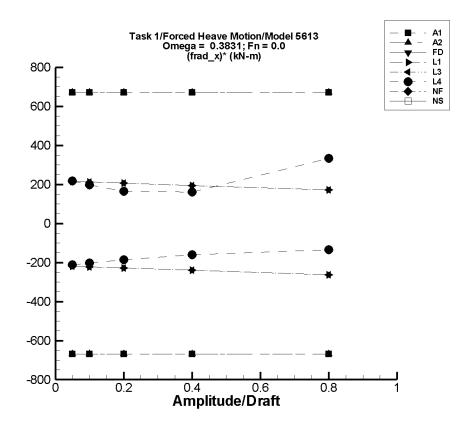


Figure K–44. Minimum and maximum of filtered $\left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–345. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle F_{m{x}}^{ m rad} angle$	Unfiltered $F_x^{\rm rad}$		Filtered $F_x^{\rm rad}$		Filtered	$\left(oldsymbol{F_x^{ m rad}} ight)^{oldsymbol{*}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.68E-02	-33.6	33.6	-33.5	33.4	-669.	671.				
.10	-0.174	-67.3	67.1	-67.1	66.9	-669.	671.				
.20	-0.347	-135.	134.	-134.	134.	-669.	671.				
.40	-0.695	-269.	269.	-268.	268.	-669.	671.				
.80	-1.39	-538.	537.	-537.	535.	-669.	671.				

Table K–346. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtered $F_x^{\rm rad}$		Filtered	$\left(oldsymbol{F_x^{ m rad}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-8.68E-02	-33.6	33.6	-33.5	33.4	-669.	671.				
.10	-0.174	-67.3	67.1	-67.1	66.9	-669.	671.				
.20	-0.347	-135.	134.	-134.	134.	-669.	671.				
.40	-0.695	-269.	269.	-268.	268.	-669.	671.				
.80	-1.39	-538.	537.	-537.	535.	-669.	671.				

Table K–347. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered F_x^{rad}		Filtered F_x^{rad}		Filtered	$(oldsymbol{F_x^{\mathrm{rad}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_	_	_	_				
.10	_					_	_				
.20	_					_					
.40	_	_		_		_	_				
.80	_					_					

Table K–348. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtered F_x^{rad}		Filtered	$\left(oldsymbol{F_x^{ m rad}}\right)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	0.148	-10.9	10.9	-10.9	10.9	-220.	214.				
.10	0.592	-21.8	21.7	-21.7	21.7	-223.	211.				
.20	2.37	-43.5	43.5	-43.4	43.4	-229.	205.				
.40	9.47	-87.0	87.0	-86.8	86.9	-241.	194.				
.80	37.9	-174.	175.	-174.	175.	-264.	171.				

Table K–349. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtere	$\mathbf{cd} \; F_{m{x}}^{\mathrm{rad}}$	Filtered $(F_{m{x}}^{ m rad})$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	0.148	-10.9	10.9	-10.9	10.9	-220.	214.				
.10	0.592	-21.8	21.7	-21.7	21.7	-223.	211.				
.20	2.37	-43.5	43.5	-43.4	43.4	-229.	205.				
.40	9.47	-87.0	87.0	-86.8	86.9	-241.	194.				
.80	37.9	-174.	174.	-174.	174.	-264.	171.				

Table K–350. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-4											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtered $F_x^{\rm rad}$		Filtered	$\left(oldsymbol{F_x^{ m rad}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	0.520	-10.1	11.4	-10.1	11.4	-213.	217.					
.10	1.85	-18.6	21.5	-18.6	21.5	-204.	197.					
.20	6.62	-30.9	45.8	-30.8	39.4	-187.	164.					
.40	23.9	-62.4	106.	-40.3	88.0	-160.	160.					
.80	75.5	-170.	435.	-32.5	341.	-135.	332.					

Table K–351. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NFA										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtered $F_x^{\rm rad}$		Filtered	$\left(oldsymbol{F_x^{\mathrm{rad}}} ight)^{oldsymbol{*}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_		_	_				
.10						_	_				
.20						_	_				
.40						_					
.80						_					

Table K–352. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_{oldsymbol{x}}^{ m rad}}$	Filtered $F_{m{x}}^{ m rad}$		Filtered (F_x^{rad})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_		_		_					
.10						_					
.20						_					
.40	_	_	_		_	_	_				
.80	—										

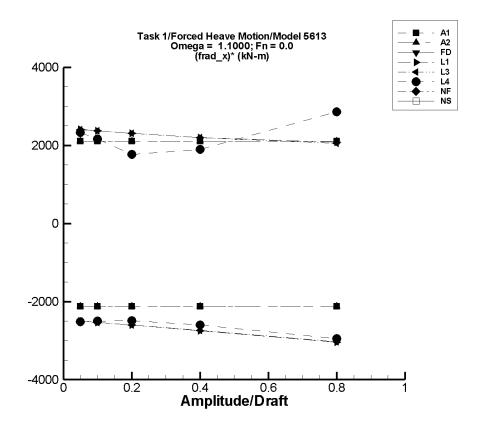


Figure K–45. Minimum and maximum of filtered $\left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–353. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-1											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_x^{ ext{rad}}}$	Filtered	Filtered $(F_x^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-1.14	-111.	107.	-107.	104.	-2.13E+03	2.10E+03					
.10	-2.28	-222.	215.	-215.	208.	-2.13E+03	2.10E+03					
.20	-4.56	-443.	429.	-430.	416.	-2.13E+03	2.10E+03					
.40	-9.13	-886.	859.	-859.	832.	-2.13E+03	2.10E+03					
.80	-18.3	-1.77E+03	1.72E+03	-1.72E+03	1.66E+03	-2.13E+03	2.10E+03					

Table K–354. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-2											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilter	Unfiltered F_x^{rad}		$oldsymbol{F_x^{ ext{rad}}}$	Filtered $(F_{m{x}}^{ m rad})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-1.14	-111.	107.	-107.	104.	-2.13E+03	2.10E+03					
.10	-2.28	-222.	215.	-215.	208.	-2.13E+03	2.10E+03					
.20	-4.56	-443.	429.	-430.	416.	-2.13E+03	2.10E+03					
.40	-9.13	-886.	859.	-859.	832.	-2.13E+03	2.10E+03					
.80	-18.3	-1.77E+03	1.72E+03	-1.72E+03	1.66E+03	-2.13E+03	2.10E+03					

Table K–355. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	FREDYN											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtered $F_x^{\rm rad}$		Filtered	$(oldsymbol{F_x^{\mathrm{rad}}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	_	_		_	_	_	_					
.10	_					_	_					
.20	_					_						
.40	_	_		_		_	_					
.80	_					_						

Table K–356. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_x^{ ext{rad}}}$	Filtered $(F_x^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	2.00	-124.	124.	-122.	123.	-2.48E+03	2.42E+03				
.10	8.00	-247.	250.	-244.	247.	-2.52E+03	2.39E+03				
.20	32.0	-491.	503.	-484.	499.	-2.58E+03	2.33E+03				
.40	128.	-974.	1.03E+03	-959.	1.02E+03	-2.72E+03	2.23E+03				
.80	512.	-1.92E+03	2.23E+03	-1.88E+03	2.21E+03	-2.99E+03	2.13E+03				

Table K–357. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-3											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilter	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	d $oldsymbol{F_x^{ ext{rad}}}$	Filtered	Filtered $(F_x^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	2.00	-124.	124.	-122.	123.	-2.48E+03	2.42E+03					
.10	8.00	-246.	250.	-243.	247.	-2.51E+03	2.39E+03					
.20	32.0	-491.	503.	-484.	498.	-2.58E+03	2.33E+03					
.40	128.	-972.	1.03E+03	-956.	1.02E+03	-2.71E+03	2.23E+03					
.80	512.	-1.91E+03	2.21E+03	-1.87E+03	2.20E+03	-2.98E+03	2.10E+03					

Table K–358. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilter	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_x^{ ext{rad}}}$	Filtered	Filtered $(F_x^{\text{rad}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	0.295	-126.	119.	-125.	118.	-2.50E+03	2.35E+03				
.10	-4.94	-255.	217.	-252.	214.	-2.47E+03	2.19E+03				
.20	-20.0	-519.	384.	-511.	341.	-2.46E+03	1.81E+03				
.40	-39.6	-1.08E+03	1.04E+03	-1.06E+03	746.	-2.54E+03	1.96E+03				
.80	-23.7	-2.36E+03	3.05E+03	-2.30E+03	2.35E+03	-2.84E+03	2.97E+03				

Table K–359. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NFA											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered F_{x}^{rad}		Filtered F_x^{rad}		Filtered	$\left(oldsymbol{F_x^{\mathrm{rad}}} ight)^{oldsymbol{*}}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	_	_		_		_	_					
.10						_	_					
.20						_	_					
.40						_	_					
.80						_	_					

Table K–360. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_{oldsymbol{x}}^{ m rad}}$	Filtered $F_{m{x}}^{ m rad}$		Filtered (F_x^{rad})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_		_		_					
.10						_					
.20						_					
.40	_	_	_		_	_	_				
.80	—										

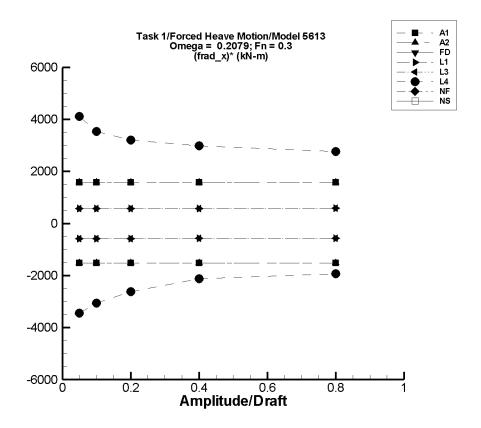


Figure K–46. Minimum and maximum of filtered $\left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–361. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-1											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_x^{ ext{rad}}}$	Filtered	Filtered $(F_x^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-0.208	-76.4	78.6	-76.4	78.5	-1.52E+03	1.57E+03					
.10	-0.416	-153.	157.	-153.	157.	-1.52E+03	1.57E+03					
.20	-0.833	-306.	314.	-305.	314.	-1.52E+03	1.57E+03					
.40	-1.67	-611.	629.	-611.	628.	-1.52E+03	1.57E+03					
.80	-3.33	-1.22E+03	1.26E+03	-1.22E+03	1.26E+03	-1.52E+03	1.57E+03					

Table K–362. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-2											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltere	Filtered	$oldsymbol{F_x^{ ext{rad}}}$	Filtered	Filtered $(F_{x}^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-0.208	-76.4	78.6	-76.4	78.5	-1.52E+03	1.57E+03					
.10	-0.416	-153.	157.	-153.	157.	-1.52E+03	1.57E+03					
.20	-0.833	-306.	314.	-305.	314.	-1.52E+03	1.57E+03					
.40	-1.67	-611.	629.	-611.	628.	-1.52E+03	1.57E+03					
.80	-3.33	-1.22E+03	1.26E+03	-1.22E+03	1.26E+03	-1.52E+03	1.57E+03					

Table K–363. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_{m{x}}^{ m rad}$		Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered (F_x^{rad})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_	_	_	_				
.10	_					_					
.20	_					_					
.40	_	_		_		_	_				
.80	_					_					

Table K–364. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltered $F_x^{\rm rad}$		Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered $(F_x^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-41.5	-70.1	-12.7	-70.1	-12.8	-572.	574.				
.10	-41.2	-98.4	16.3	-98.4	16.3	-572.	575.				
.20	-40.3	-154.	75.2	-154.	75.1	-570.	577.				
.40	-36.4	-263.	196.	-263.	196.	-567.	581.				
.80	-21.0	-470.	450.	-470.	450.	-561.	589.				

Table K–365. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ m rad}}$	Filtere	$\mathbf{cd} \; F_{m{x}}^{\mathrm{rad}}$	Filtered $(F_x^{\text{rad}})^*$					
(z_a/T)	Mean	Min.			Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-41.5	-70.2	-12.8	-70.2	-12.8	-573.	574.				
.10	-41.3	-98.5	16.2	-98.5	16.2	-572.	575.				
.20	-40.3	-154.	75.1	-154.	75.1	-570.	577.				
.40	-36.5	-263.	196.	-263.	196.	-567.	581.				
.80	-21.1	-470.	450.	-470.	450.	-561.	589.				

Table K–366. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilter	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filte	$\overline{\mathbf{red}} \; \overline{F_{m{x}}^{\mathrm{rad}}}$	Filtered	$(\boldsymbol{F_x^{\mathrm{rad}}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-30.4	-267.	172.	-206.	171.	-3.52E+03	4.03E+03					
.10	31.5	-324.	377.	-282.	377.	-3.14E+03	3.45E+03					
.20	173.	-426.	801.	-364.	800.	-2.68E+03	3.14E+03					
.40	401.	-740.	1.60E+03	-469.	1.58E+03	-2.17E+03	2.94E+03					
.80	804.	-1.67E+03	3.36E+03	-772.	2.98E+03	-1.97E+03	2.72E+03					

Table K–367. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NFA											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ m rad}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered (F_x^{rad})						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05		_				_	_					
.10	_	_				_	_					
.20	_	_				_	_					
.40	_	_		_		_	_					
.80	_	_				_	_					

Table K–368. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ m rad}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered $(F_x^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_				_	_				
.10											
.20											
.40						_					
.80						_	_				

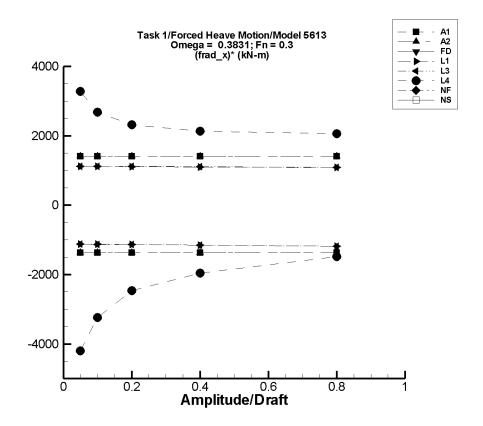


Figure K–47. Minimum and maximum of filtered $\left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–369. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-1												
	$\langle F_{m{x}}^{ m rad} angle$	Unfiltered F_x^{rad}		Filtered	$oldsymbol{F_x^{ ext{rad}}}$	Filtered $(F_x^{\text{rad}})^*$							
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.						
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)						
.05	4.80E-02	-68.9	70.4	-68.6	70.5	-1.37E+03	1.41E+03						
.10	9.60E-02	-138.	141.	-137.	141.	-1.37E+03	1.41E+03						
.20	0.192	-275.	282.	-274.	282.	-1.37E+03	1.41E+03						
.40	0.384	-551.	563.	-548.	564.	-1.37E+03	1.41E+03						
.80	0.768	-1.10E+03	1.13E+03	-1.10E+03	1.13E+03	-1.37E+03	1.41E+03						

Table K–370. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-2												
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltere	Unfiltered $F_x^{\rm rad}$		$oldsymbol{F_x^{ ext{rad}}}$	Filtered $(oldsymbol{F_x^{\mathrm{rad}}})^*$							
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.						
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)						
.05	4.80E-02	-68.9	70.4	-68.6	70.5	-1.37E+03	1.41E+03						
.10	9.60E-02	-138.	141.	-137.	141.	-1.37E+03	1.41E+03						
.20	0.192	-275.	282.	-274.	282.	-1.37E+03	1.41E+03						
.40	0.384	-551.	563.	-548.	564.	-1.37E+03	1.41E+03						
.80	0.768	-1.10E+03	1.13E+03	-1.10E+03	1.13E+03	-1.37E+03	1.41E+03						

Table K–371. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ m rad}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered $(F_x^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_	_	_		_	_				
.10						_					
.20						_					
.40		_	_	_		_	_				
.80						_					

Table K–372. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	Unfiltered F_{x}^{rad}		$\mathbf{cd} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$\left(oldsymbol{F_x}^{\mathrm{rad}} ight)^{oldsymbol{*}}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-41.2	-97.6	14.8	-97.5	14.7	-1.13E+03	1.12E+03					
.10	-40.3	-153.	71.4	-153.	71.2	-1.13E+03	1.12E+03					
.20	-36.6	-264.	186.	-264.	185.	-1.14E+03	1.11E+03					
.40	-21.9	-483.	418.	-482.	418.	-1.15E+03	1.10E+03					
.80	36.9	-912.	905.	-911.	904.	-1.18E+03	1.08E+03					

Table K–373. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	Unfiltered F_{x}^{rad}		$\mathbf{cd} \; F_{m{x}}^{\mathrm{rad}}$	Filtered $(F_x^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min. Max. Min.		Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-41.3	-97.7	14.9	-97.7	14.8	-1.13E+03	1.12E+03				
.10	-40.3	-154.	71.6	-153.	71.5	-1.13E+03	1.12E+03				
.20	-36.7	-265.	186.	-264.	186.	-1.14E+03	1.11E+03				
.40	-22.0	-484.	419.	-483.	419.	-1.15E+03	1.10E+03				
.80	36.9	-914.	908.	-913.	907.	-1.19E+03	1.09E+03				

Table K–374. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilter	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filte	$oxed{red} oxed{F_x^{ m rad}}$	Filtered $(F_x^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-33.6	-283.	132.	-243.	131.	-4.18E+03	3.30E+03					
.10	27.5	-364.	297.	-295.	296.	-3.22E+03	2.69E+03					
.20	159.	-453.	630.	-332.	624.	-2.45E+03	2.33E+03					
.40	342.	-1.03E+03	1.21E+03	-439.	1.20E+03	-1.95E+03	2.14E+03					
.80	587.	-2.53E+03	2.68E+03	-589.	2.24E+03	-1.47E+03	2.07E+03					

Table K–375. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NFA											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ m rad}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$(\boldsymbol{F_x^{\mathrm{rad}}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05		_				_	_					
.10	_	_				_	_					
.20	_	_				_	_					
.40	_	_		_		_	_					
.80	_	_				_	_					

Table K–376. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_{oldsymbol{x}}^{ m rad}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered (F_x^{rad})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_		_		_					
.10						_					
.20						_					
.40	_	_	_		_	_	_				
.80	—										

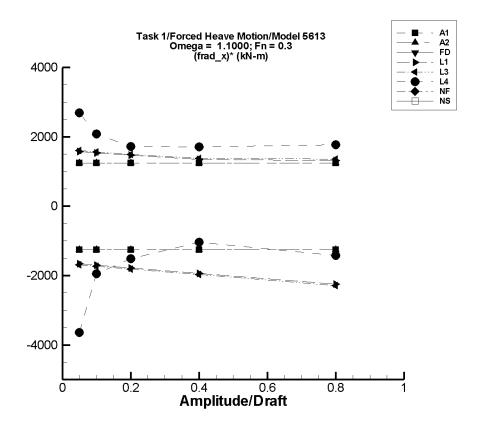


Figure K–48. Minimum and maximum of filtered $\left(F_x^{\rm rad} - \langle F_x^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–377. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-1											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_{oldsymbol{x}}^{ ext{rad}}}$	Filtered	$(oldsymbol{F_x}^{\mathrm{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-1.92	-66.8	67.9	-64.8	60.3	-1.26E+03	1.25E+03					
.10	-3.83	-134.	136.	-130.	121.	-1.26E+03	1.25E+03					
.20	-7.67	-267.	272.	-259.	241.	-1.26E+03	1.25E+03					
.40	-15.3	-534.	543.	-518.	483.	-1.26E+03	1.25E+03					
.80	-30.7	-1.07E+03	1.09E+03	-1.04E+03	966.	-1.26E+03	1.25E+03					

Table K–378. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-2											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_x^{ ext{rad}}}$	Filtered	$(oldsymbol{F_x^{\mathrm{rad}}})^*$					
$\mid (z_a/T) \mid$	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-1.92	-66.8	67.9	-64.8	60.3	-1.26E+03	1.25E+03					
.10	-3.83	-134.	136.	-130.	121.	-1.26E+03	1.25E+03					
.20	-7.67	-267.	272.	-259.	241.	-1.26E+03	1.25E+03					
.40	-15.3	-534.	543.	-518.	483.	-1.26E+03	1.25E+03					
.80	-30.7	-1.07E+03	1.09E+03	-1.04E+03	966.	-1.26E+03	1.25E+03					

Table K–379. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	FREDYN											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ m rad}}$	Filtered F_x^{rad}		Filtered (F_x^{rad})						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	_	_	_	_		_	_					
.10						_						
.20						_						
.40		_	_	_		_	_					
.80						_						

Table K–380. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_x^{ ext{rad}}}$	Filtered $(F_x^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-40.0	-124.	40.0	-123.	39.2	-1.65E+03	1.58E+03					
.10	-35.2	-206.	121.	-204.	120.	-1.69E+03	1.55E+03					
.20	-16.3	-374.	282.	-369.	280.	-1.76E+03	1.48E+03					
.40	59.3	-717.	612.	-704.	608.	-1.91E+03	1.37E+03					
.80	362.	-1.44E+03	1.46E+03	-1.40E+03	1.45E+03	-2.21E+03	1.36E+03					

Table K–381. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-3												
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilter	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_x^{ ext{rad}}}$	Filtered $(F_x^{\text{rad}})^*$							
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.						
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)						
.05	-39.9	-125.	41.4	-124.	40.6	-1.68E+03	1.61E+03						
.10	-35.2	-209.	124.	-207.	122.	-1.72E+03	1.58E+03						
.20	-16.3	-380.	288.	-375.	286.	-1.79E+03	1.51E+03						
.40	59.3	-731.	625.	-718.	621.	-1.94E+03	1.40E+03						
.80	362.	-1.47E+03	1.50E+03	-1.44E+03	1.48E+03	-2.25E+03	1.40E+03						

Table K–382. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilter	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filte	$oxed{red} oxed{F_x^{ m rad}}$	Filtered $(F_{m{x}}^{ m rad})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-34.7	-324.	102.	-220.	96.2	-3.71E+03	2.62E+03					
.10	29.6	-341.	241.	-170.	232.	-2.00E+03	2.03E+03					
.20	154.	-374.	505.	-154.	492.	-1.54E+03	1.69E+03					
.40	368.	-930.	1.16E+03	-46.9	1.05E+03	-1.04E+03	1.71E+03					
.80	964.	-2.06E+03	3.04E+03	-156.	2.40E+03	-1.40E+03	1.80E+03					

Table K–383. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\left\langle F_x^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NFA											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ m rad}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered	$(\boldsymbol{F_x^{\mathrm{rad}}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05		_				_	_					
.10	_	_				_	_					
.20	_	_				_	_					
.40	_	_		_		_	_					
.80	_	_				_	_					

Table K–384. Minimum and Maximum of Variables $F_x^{\rm rad}$ and $\left(F_x^{\rm rad}\right)^*=\left(F_x^{\rm rad}-\langle F_x^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle oldsymbol{F_x^{ m rad}} angle$	Unfilte	$oldsymbol{red} oldsymbol{F_x^{ m rad}}$	Filtere	$\mathbf{ed} \; F_{m{x}}^{\mathrm{rad}}$	Filtered $(F_x^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05		_		_		_	_					
.10				_		_	_					
.20		_		_		_	_					
.40				_		_	_					
.80												

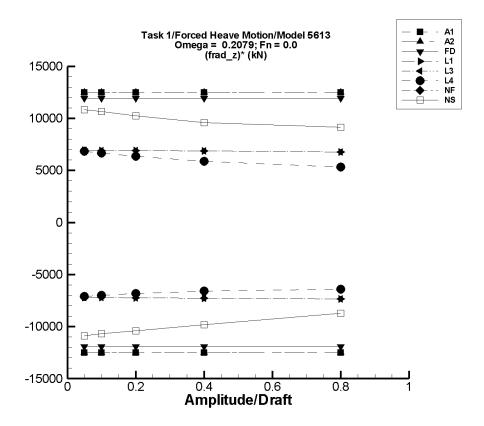


Figure K–49. Minimum and maximum of filtered $\left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–385. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

AEGIR-1										
	$\langle F_z^{ m rad} angle$	Unfiltere	$\mathbf{ed} \; F_{z}^{\mathrm{rad}}$	Filtered	$\mathbf{f} F_{z}^{\mathrm{rad}}$	Filtered $(F_z^{\text{rad}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	-1.79E-02	-626.	626.	-625.	625.	-1.25E+04	1.25E+04			
.10	-3.58E-02	-1.25E+03	1.25E+03	-1.25E+03	1.25E+03	-1.25E+04	1.25E+04			
.20	-7.15E-02	-2.50E+03	2.50E+03	-2.50E+03	2.50E+03	-1.25E+04	1.25E+04			
.40	-0.143	-5.00E+03	5.01E+03	-5.00E+03	5.00E+03	-1.25E+04	1.25E+04			
.80	-0.286	-1.00E+04	1.00E+04	-9.99E+03	1.00E+04	-1.25E+04	1.25E+04			

Table K–386. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

AEGIR-2										
	$\langle F_z^{ m rad} angle$	Unfiltered $F_z^{\rm rad}$		Filtered $F_z^{\rm rad}$		Filtered $(F_z^{\text{rad}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	-1.79E-02	-626.	626.	-625.	625.	-1.25E+04	1.25E+04			
.10	-3.58E-02	-1.25E+03	1.25E+03	-1.25E+03	1.25E+03	-1.25E+04	1.25E+04			
.20	-7.15E-02	-2.50E+03	2.50E+03	-2.50E+03	2.50E+03	-1.25E+04	1.25E+04			
.40	-0.143	-5.00E+03	5.01E+03	-5.00E+03	5.00E+03	-1.25E+04	1.25E+04			
.80	-0.286	-1.00E+04	1.00E+04	-9.99E+03	1.00E+04	-1.25E+04	1.25E+04			

Table K–387. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

FREDYN										
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{rad}}$	Filtered	$\mathbf{f} F_{z}^{\mathrm{rad}}$	Filtered	$(\boldsymbol{F_z^{\mathrm{rad}}})^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	4.88E-06	-597.	597.	-596.	596.	-1.19E+04	1.19E+04			
.10	-1.86E-05	-1.19E+03	1.19E+03	-1.19E+03	1.19E+03	-1.19E+04	1.19E+04			
.20	-7.87E-05	-2.39E+03	2.39E+03	-2.38E+03	2.38E+03	-1.19E+04	1.19E+04			
.40	-1.81E-04	-4.77E+03	4.77E+03	-4.77E+03	4.77E+03	-1.19E+04	1.19E+04			
.80	-2.31E-04	-9.55E+03	9.55E+03	-9.54E+03	9.54E+03	-1.19E+04	1.19E+04			

Table K–388. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

LAMP-1										
	$\langle m{F}_{m{z}}^{ m rad} angle$			Filtered $F_z^{\rm rad}$		Filtered $(oldsymbol{F_z^{\mathrm{rad}}})^*$				
(z_a/T)	Mean			Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	0.463	-353.	353.	-353.	353.	-7.08E+03	7.06E+03			
.10	1.85	-707.	707.	-707.	707.	-7.08E+03	7.05E+03			
.20	7.41	-1.41E+03	1.41E+03	-1.41E+03	1.41E+03	-7.10E+03	7.03E+03			
.40	29.6	-2.83E+03	2.83E+03	-2.83E+03	2.83E+03	-7.14E+03	6.99E+03			
.80	119.	-5.66E+03	5.65E+03	-5.65E+03	5.65E+03	-7.22E+03	6.92E+03			

Table K–389. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

LAMP-3										
	$\langle F_z^{ m rad} angle$ Unfiltered $F_z^{ m rad}$		Filtered	$m{H}_{m{z}}^{ ext{rad}}$	Filtered $(F_z^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	0.463	-353.	353.	-353.	353.	-7.08E+03	7.06E+03			
.10	1.85	-707.	707.	-707.	707.	-7.08E+03	7.05E+03			
.20	7.41	-1.41E+03	1.41E+03	-1.41E+03	1.41E+03	-7.10E+03	7.03E+03			
.40	29.6	-2.83E+03	2.83E+03	-2.83E+03	2.83E+03	-7.14E+03	6.99E+03			
.80	119.	-5.66E+03	5.65E+03	-5.65E+03	5.65E+03	-7.22E+03	6.92E+03			

Table K–390. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

LAMP-4										
	$\langle oldsymbol{F_z^{ m rad}} angle$	$\langle F_z^{\rm rad} \rangle$ Unfiltered $F_z^{\rm rad}$ Mean Min. Max.		Filtered $F_z^{\rm rad}$		Filtered $(F_z^{\text{rad}})^*$				
(z_a/T)	Mean			Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	-0.314	-349.	348.	-349.	348.	-6.97E+03	6.96E+03			
.10	-2.56	-689.	676.	-689.	676.	-6.87E+03	6.78E+03			
.20	-13.1	-1.35E+03	1.28E+03	-1.35E+03	1.28E+03	-6.70E+03	6.47E+03			
.40	-57.4	-2.64E+03	2.36E+03	-2.64E+03	2.35E+03	-6.45E+03	6.02E+03			
.80	-326.	-5.36E+03	4.07E+03	-5.36E+03	4.02E+03	-6.29E+03	5.44E+03			

Table K–391. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

NFA										
	$\langle m{F}_{m{z}}^{ m rad} angle$	Unfiltered $F_z^{\rm rad}$		Filtered F_z^{rad}		Filtered (F_z^{rad})				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	_	_		_		_	_			
.10						_	_			
.20						_	_			
.40						_	_			
.80						_				

Table K–392. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\langle F_z^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

NSHIPMO										
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	Filtered $F_z^{\rm rad}$		$(\boldsymbol{F_z^{\mathrm{rad}}})^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)			
.05	-1.55	-551.	544.	-545.	539.	-1.09E+04	1.08E+04			
.10	-4.85	-1.09E+03	1.07E+03	-1.07E+03	1.06E+03	-1.07E+04	1.07E+04			
.20	-30.9	-2.13E+03	2.05E+03	-2.11E+03	2.02E+03	-1.04E+04	1.02E+04			
.40	-112.	-4.07E+03	3.80E+03	-4.04E+03	3.73E+03	-9.83E+03	9.60E+03			
.80	-508.	-7.55E+03	7.34E+03	-7.50E+03	6.80E+03	-8.74E+03	9.14E+03			

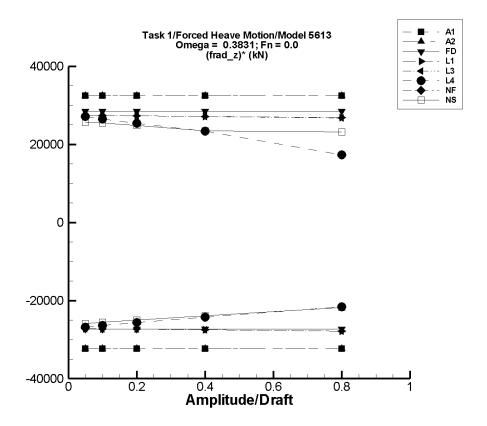


Figure K–50. Minimum and maximum of filtered $\left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–393. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$\mathbf{f} F_{oldsymbol{z}}^{ ext{rad}}$	Filtered	Filtered $(F_z^{\text{rad}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	3.02	-1.62E+03	1.63E+03	-1.61E+03	1.63E+03	-3.23E+04	3.24E+04				
.10	6.05	-3.23E+03	3.26E+03	-3.22E+03	3.25E+03	-3.23E+04	3.24E+04				
.20	12.1	-6.47E+03	6.52E+03	-6.44E+03	6.50E+03	-3.23E+04	3.24E+04				
.40	24.2	-1.29E+04	1.30E+04	-1.29E+04	1.30E+04	-3.23E+04	3.24E+04				
.80	48.4	-2.59E+04	2.61E+04	-2.58E+04	2.60E+04	-3.23E+04	3.24E+04				

Table K–394. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	l $F_z^{ m rad}$	Filtered $(F_z^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	3.02	-1.62E+03	1.63E+03	-1.61E+03	1.63E+03	-3.23E+04	3.24E+04				
.10	6.05	-3.23E+03	3.26E+03	-3.22E+03	3.25E+03	-3.23E+04	3.24E+04				
.20	12.1	-6.47E+03	6.52E+03	-6.44E+03	6.50E+03	-3.23E+04	3.24E+04				
.40	24.2	-1.29E+04	1.30E+04	-1.29E+04	1.30E+04	-3.23E+04	3.24E+04				
.80	48.4	-2.59E+04	2.61E+04	-2.58E+04	2.60E+04	-3.23E+04	3.24E+04				

Table K–395. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle F_z^{ m rad} angle$	Unfiltere	$\mathbf{ed} \; F_{z}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered	$(\boldsymbol{F_z^{\mathrm{rad}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-1.37E-04	-1.40E+03	1.40E+03	-1.40E+03	1.39E+03	-2.79E+04	2.79E+04				
.10	-2.54E-04	-2.80E+03	2.80E+03	-2.79E+03	2.79E+03	-2.79E+04	2.79E+04				
.20	-5.84E-04	-5.59E+03	5.59E+03	-5.59E+03	5.57E+03	-2.79E+04	2.79E+04				
.40	-1.28E-03	-1.12E+04	1.12E+04	-1.12E+04	1.11E+04	-2.79E+04	2.79E+04				
.80	-1.30E-03	-2.24E+04	2.24E+04	-2.23E+04	2.23E+04	-2.79E+04	2.79E+04				

Table K–396. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-1											
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	2.03	-1.37E+03	1.37E+03	-1.37E+03	1.37E+03	-2.74E+04	2.73E+04					
.10	8.11	-2.74E+03	2.74E+03	-2.73E+03	2.73E+03	-2.74E+04	2.72E+04					
.20	32.4	-5.47E+03	5.47E+03	-5.47E+03	5.47E+03	-2.75E+04	2.72E+04					
.40	130.	-1.10E+04	1.09E+04	-1.09E+04	1.09E+04	-2.77E+04	2.70E+04					
.80	519.	-2.19E+04	2.19E+04	-2.19E+04	2.18E+04	-2.80E+04	2.67E+04					

Table K–397. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{rad}}$	Filtered	$\mathbf{f} F_z^{\mathrm{rad}}$	Filtered	$\left(oldsymbol{F_z^{\mathrm{rad}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	2.03	-1.37E+03	1.37E+03	-1.37E+03	1.37E+03	-2.74E+04	2.73E+04				
.10	8.11	-2.74E+03	2.74E+03	-2.73E+03	2.73E+03	-2.74E+04	2.72E+04				
.20	32.4	-5.47E+03	5.47E+03	-5.47E+03	5.46E+03	-2.75E+04	2.72E+04				
.40	130.	-1.10E+04	1.09E+04	-1.09E+04	1.09E+04	-2.77E+04	2.70E+04				
.80	519.	-2.19E+04	2.19E+04	-2.19E+04	2.18E+04	-2.80E+04	2.66E+04				

Table K–398. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\langle F_z^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-4											
	$\langle F_z^{ m rad} angle$	Unfiltere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-3.02E-02	-1.35E+03	1.35E+03	-1.35E+03	1.35E+03	-2.70E+04	2.70E+04					
.10	-5.36	-2.67E+03	2.63E+03	-2.66E+03	2.63E+03	-2.66E+04	2.64E+04					
.20	-31.8	-5.20E+03	5.02E+03	-5.19E+03	5.01E+03	-2.58E+04	2.52E+04					
.40	-158.	-9.95E+03	9.18E+03	-9.94E+03	9.12E+03	-2.44E+04	2.32E+04					
.80	-1.11E+03	-1.85E+04	1.30E+04	-1.85E+04	1.27E+04	-2.17E+04	1.72E+04					

Table K–399. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\langle F_z^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NFA										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfilte	$oxed{red} oxed{F_z^{ m rad}}$	Filtere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered (F_z^{rad})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_		_		_	_				
.10						_					
.20						—	_				
.40						_					
.80						_	_				

Table K–400. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle F_z^{ m rad} angle$	Unfiltered $F_z^{\rm rad}$		Filtered $F_z^{\rm rad}$		Filtered $(F_z^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-9.84	-1.32E+03	1.29E+03	-1.31E+03	1.27E+03	-2.59E+04	2.57E+04				
.10	-21.9	-2.60E+03	2.55E+03	-2.58E+03	2.52E+03	-2.56E+04	2.54E+04				
.20	-88.5	-5.15E+03	4.94E+03	-5.09E+03	4.87E+03	-2.50E+04	2.48E+04				
.40	-263.	-9.93E+03	9.26E+03	-9.83E+03	9.12E+03	-2.39E+04	2.35E+04				
.80	-1.04E+03	-1.87E+04	1.90E+04	-1.84E+04	1.75E+04	-2.18E+04	2.32E+04				

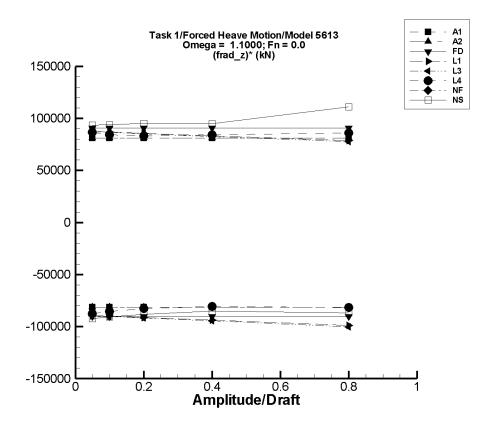


Figure K–51. Minimum and maximum of filtered $\left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–401. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\langle F_z^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-1											
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-5.85	-4.20E+03	4.18E+03	-4.07E+03	4.06E+03	-8.13E+04	8.12E+04					
.10	-11.7	-8.40E+03	8.37E+03	-8.15E+03	8.11E+03	-8.13E+04	8.12E+04					
.20	-23.4	-1.68E+04	1.67E+04	-1.63E+04	1.62E+04	-8.13E+04	8.12E+04					
.40	-46.8	-3.36E+04	3.35E+04	-3.26E+04	3.25E+04	-8.13E+04	8.12E+04					
.80	-93.6	-6.72E+04	6.69E+04	-6.52E+04	6.49E+04	-8.13E+04	8.12E+04					

Table K–402. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{z}^{\mathrm{rad}}$	Filtered	$\mathbf{f} F_z^{\mathrm{rad}}$	Filtered	$(\boldsymbol{F_z^{\mathrm{rad}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-5.85	-4.20E+03	4.18E+03	-4.07E+03	4.06E+03	-8.13E+04	8.12E+04				
.10	-11.7	-8.40E+03	8.37E+03	-8.15E+03	8.11E+03	-8.13E+04	8.12E+04				
.20	-23.4	-1.68E+04	1.67E+04	-1.63E+04	1.62E+04	-8.13E+04	8.12E+04				
.40	-46.8	-3.36E+04	3.35E+04	-3.26E+04	3.25E+04	-8.13E+04	8.12E+04				
.80	-93.6	-6.72E+04	6.69E+04	-6.52E+04	6.49E+04	-8.13E+04	8.12E+04				

Table K–403. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$\mathbf{f} F_{oldsymbol{z}}^{ ext{rad}}$	Filtered $(F_z^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-3.40E-05	-4.66E+03	4.66E+03	-4.52E+03	4.53E+03	-9.04E+04	9.06E+04				
.10	1.02E-04	-9.33E+03	9.33E+03	-9.04E+03	9.06E+03	-9.04E+04	9.06E+04				
.20	-3.03E-04	-1.87E+04	1.87E+04	-1.81E+04	1.81E+04	-9.04E+04	9.06E+04				
.40	-1.08E-03	-3.73E+04	3.73E+04	-3.62E+04	3.62E+04	-9.04E+04	9.06E+04				
.80	-1.25E-03	-7.46E+04	7.46E+04	-7.23E+04	7.25E+04	-9.04E+04	9.06E+04				

Table K–404. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-1											
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered	$(\boldsymbol{F_z^{\mathrm{rad}}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-14.8	-4.52E+03	4.43E+03	-4.47E+03	4.38E+03	-8.91E+04	8.78E+04					
.10	-59.3	-9.13E+03	8.76E+03	-9.03E+03	8.66E+03	-8.97E+04	8.72E+04					
.20	-237.	-1.86E+04	1.71E+04	-1.84E+04	1.70E+04	-9.09E+04	8.60E+04					
.40	-949.	-3.88E+04	3.28E+04	-3.84E+04	3.25E+04	-9.35E+04	8.36E+04					
.80	-3.80E+03	-8.39E+04	6.00E+04	-8.27E+04	5.95E+04	-9.87E+04	7.91E+04					

Table K–405. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-3											
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_{z}^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-14.8	-4.52E+03	4.42E+03	-4.47E+03	4.37E+03	-8.91E+04	8.77E+04					
.10	-59.3	-9.15E+03	8.73E+03	-9.04E+03	8.64E+03	-8.98E+04	8.70E+04					
.20	-237.	-1.87E+04	1.71E+04	-1.85E+04	1.69E+04	-9.12E+04	8.56E+04					
.40	-949.	-3.91E+04	3.25E+04	-3.86E+04	3.22E+04	-9.41E+04	8.29E+04					
.80	-3.80E+03	-8.49E+04	5.89E+04	-8.37E+04	5.85E+04	-9.99E+04	7.79E+04					

Table K–406. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-4											
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$m{H} m{F}_{m{z}}^{ m rad}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-21.6	-4.42E+03	4.40E+03	-4.37E+03	4.34E+03	-8.71E+04	8.72E+04					
.10	-168.	-8.75E+03	8.45E+03	-8.66E+03	8.30E+03	-8.49E+04	8.47E+04					
.20	-659.	-1.72E+04	1.68E+04	-1.70E+04	1.61E+04	-8.19E+04	8.40E+04					
.40	-2.11E+03	-3.42E+04	3.46E+04	-3.38E+04	3.21E+04	-7.92E+04	8.54E+04					
.80	-6.28E+03	-7.08E+04	7.13E+04	-6.98E+04	6.43E+04	-7.94E+04	8.82E+04					

Table K–407. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NFA										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfilte	Unfiltered $F_z^{\rm rad}$		Filtered $F_z^{\rm rad}$		$\mathbf{d} \left(\boldsymbol{F}_{z}^{\mathrm{rad}} \right)^{*}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_		_		_	_				
.10						_	_				
.20						_	_				
.40	_	_				_	_				
.80	_				_	_					

Table K–408. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NSHIPMO											
	$\langle F_z^{ m rad} angle$	Unfiltere	$\mathbf{ed} \; F_{z}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{\mathrm{rad}}}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-64.2	-4.73E+03	4.66E+03	-4.68E+03	4.61E+03	-9.24E+04	9.34E+04					
.10	-164.	-9.30E+03	9.34E+03	-9.21E+03	9.22E+03	-9.05E+04	9.39E+04					
.20	-607.	-1.84E+04	1.88E+04	-1.82E+04	1.84E+04	-8.82E+04	9.53E+04					
.40	-1.84E+03	-3.63E+04	3.65E+04	-3.58E+04	3.60E+04	-8.50E+04	9.47E+04					
.80	-5.41E+03	-7.55E+04	9.65E+04	-7.48E+04	8.34E+04	-8.67E+04	1.11E+05					

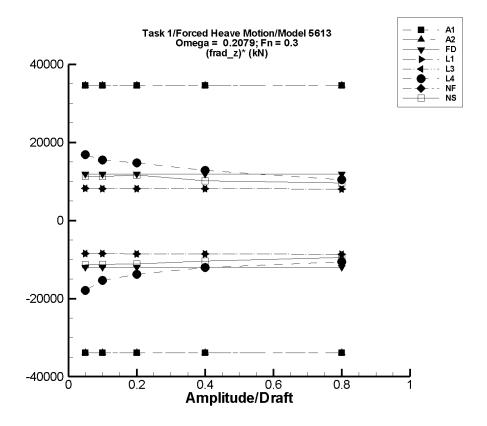


Figure K–52. Minimum and maximum of filtered $\left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–409. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-1											
	$\langle oldsymbol{F}_{oldsymbol{z}}^{ m rad} angle$	Unfiltere	$\mathbf{ed} \; F_{z}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	6.06	-1.69E+03	1.74E+03	-1.69E+03	1.74E+03	-3.39E+04	3.46E+04					
.10	12.1	-3.38E+03	3.48E+03	-3.38E+03	3.47E+03	-3.39E+04	3.46E+04					
.20	24.2	-6.77E+03	6.95E+03	-6.76E+03	6.94E+03	-3.39E+04	3.46E+04					
.40	48.5	-1.35E+04	1.39E+04	-1.35E+04	1.39E+04	-3.39E+04	3.46E+04					
.80	97.0	-2.71E+04	2.78E+04	-2.70E+04	2.78E+04	-3.39E+04	3.46E+04					

Table K–410. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-2											
	$\langle F_z^{\rm rad} \rangle$ Unfiltered $F_z^{\rm rad}$			Filtered	$m{H}_{m{z}}^{ ext{rad}}$	Filtered $(F_z^{\rm rad})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	6.06	-1.69E+03	1.74E+03	-1.69E+03	1.74E+03	-3.39E+04	3.46E+04					
.10	12.1	-3.38E+03	3.48E+03	-3.38E+03	3.47E+03	-3.39E+04	3.46E+04					
.20	24.2	-6.77E+03	6.95E+03	-6.76E+03	6.94E+03	-3.39E+04	3.46E+04					
.40	48.5	-1.35E+04	1.39E+04	-1.35E+04	1.39E+04	-3.39E+04	3.46E+04					
.80	97.0	-2.71E+04	2.78E+04	-2.70E+04	2.78E+04	-3.39E+04	3.46E+04					

Table K–411. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	FREDYN											
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	d $F_z^{ m rad}$	Filtered	$(F_z^{\mathrm{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-1.43E-05	-597.	597.	-596.	596.	-1.19E+04	1.19E+04					
.10	-1.86E-05	-1.19E+03	1.19E+03	-1.19E+03	1.19E+03	-1.19E+04	1.19E+04					
.20	-7.87E-05	-2.39E+03	2.39E+03	-2.38E+03	2.38E+03	-1.19E+04	1.19E+04					
.40	-1.81E-04	-4.77E+03	4.77E+03	-4.77E+03	4.77E+03	-1.19E+04	1.19E+04					
.80	-2.31E-04	-9.55E+03	9.55E+03	-9.54E+03	9.54E+03	-1.19E+04	1.19E+04					

Table K–412. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-1												
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtere	$\mathbf{d} \; oldsymbol{F_{oldsymbol{z}}^{ ext{rad}}}$	Filtered $(F_z^{\rm rad})^*$							
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.						
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)						
.05	-3.73E+03	-4.15E+03	-3.31E+03	-4.15E+03	-3.32E+03	-8.35E+03	8.33E+03						
.10	-3.73E+03	-4.57E+03	-2.90E+03	-4.57E+03	-2.90E+03	-8.36E+03	8.32E+03						
.20	-3.72E+03	-5.40E+03	-2.06E+03	-5.40E+03	-2.06E+03	-8.38E+03	8.30E+03						
.40	-3.70E+03	-7.07E+03	-394.	-7.07E+03	-395.	-8.42E+03	8.26E+03						
.80	-3.60E+03	-1.04E+04	2.95E+03	-1.04E+04	2.94E+03	-8.51E+03	8.18E+03						

Table K–413. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-3											
	$\langle F_z^{ m rad} angle$	Unfilter	ed $F_z^{ m rad}$	Filtere	$\mathbf{d} \; oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_{oldsymbol{z}}^{\mathrm{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-3.73E+03	-4.15E+03	-3.32E+03	-4.15E+03	-3.32E+03	-8.35E+03	8.33E+03					
.10	-3.73E+03	-4.57E+03	-2.90E+03	-4.57E+03	-2.90E+03	-8.36E+03	8.32E+03					
.20	-3.72E+03	-5.40E+03	-2.06E+03	-5.40E+03	-2.06E+03	-8.38E+03	8.30E+03					
.40	-3.70E+03	-7.07E+03	-394.	-7.07E+03	-396.	-8.42E+03	8.26E+03					
.80	-3.60E+03	-1.04E+04	2.94E+03	-1.04E+04	2.94E+03	-8.51E+03	8.18E+03					

Table K–414. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-4												
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtere	$\mathbf{d} \; oldsymbol{F_{oldsymbol{z}}^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$							
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.						
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)						
.05	-3.83E+03	-4.71E+03	-2.96E+03	-4.71E+03	-2.97E+03	-1.76E+04	1.72E+04						
.10	-3.89E+03	-5.40E+03	-2.25E+03	-5.39E+03	-2.31E+03	-1.51E+04	1.58E+04						
.20	-4.02E+03	-6.73E+03	-987.	-6.73E+03	-1.03E+03	-1.35E+04	1.50E+04						
.40	-4.19E+03	-8.94E+03	1.08E+03	-8.93E+03	1.02E+03	-1.19E+04	1.30E+04						
.80	-4.50E+03	-1.34E+04	4.15E+03	-1.28E+04	4.03E+03	-1.04E+04	1.07E+04						

Table K–415. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NFA										
	$\langle m{F}_{m{z}}^{ m rad} angle$	Unfiltered $F_z^{\rm rad}$		Filtered $F_z^{\rm rad}$		Filtered (F_z^{rad})					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_		_		_	_				
.10						_	_				
.20						_	_				
.40						_	_				
.80						_					

Table K–416. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\langle F_z^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle F_z^{ m rad} angle$	Unfiltere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$m{H} m{F}_{m{z}}^{ m rad}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-3.19	-576.	569.	-570.	563.	-1.13E+04	1.13E+04					
.10	-19.8	-1.15E+03	1.12E+03	-1.14E+03	1.11E+03	-1.12E+04	1.13E+04					
.20	-18.4	-2.28E+03	2.33E+03	-2.25E+03	2.30E+03	-1.11E+04	1.16E+04					
.40	-198.	-4.43E+03	3.93E+03	-4.38E+03	3.85E+03	-1.04E+04	1.01E+04					
.80	-712.	-8.35E+03	7.55E+03	-8.30E+03	6.98E+03	-9.48E+03	9.62E+03					

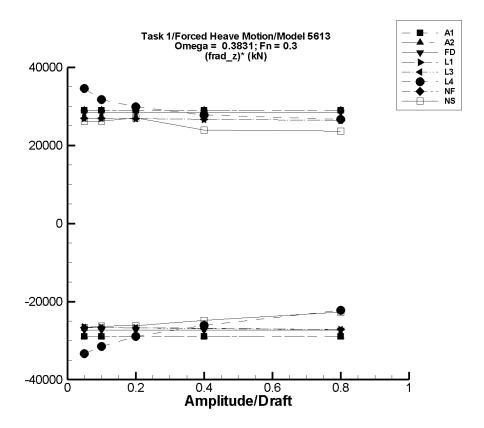


Figure K–53. Minimum and maximum of filtered $\left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–417. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfiltered $F_z^{\rm rad}$		Filtered	$\mathbf{f} F_{oldsymbol{z}}^{ ext{rad}}$	Filtered	$(\boldsymbol{F_z^{\mathrm{rad}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-19.6	-1.48E+03	1.43E+03	-1.47E+03	1.43E+03	-2.90E+04	2.89E+04				
.10	-39.2	-2.95E+03	2.87E+03	-2.93E+03	2.86E+03	-2.90E+04	2.89E+04				
.20	-78.4	-5.90E+03	5.73E+03	-5.87E+03	5.71E+03	-2.90E+04	2.89E+04				
.40	-157.	-1.18E+04	1.15E+04	-1.17E+04	1.14E+04	-2.90E+04	2.89E+04				
.80	-314.	-2.36E+04	2.29E+04	-2.35E+04	2.28E+04	-2.90E+04	2.89E+04				

Table K–418. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$					
$ (z_a/T) $	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-19.6	-1.48E+03	1.43E+03	-1.47E+03	1.43E+03	-2.90E+04	2.89E+04				
.10	-39.2	-2.95E+03	2.87E+03	-2.93E+03	2.86E+03	-2.90E+04	2.89E+04				
.20	-78.4	-5.90E+03	5.73E+03	-5.87E+03	5.71E+03	-2.90E+04	2.89E+04				
.40	-157.	-1.18E+04	1.15E+04	-1.17E+04	1.14E+04	-2.90E+04	2.89E+04				
.80	-314.	-2.36E+04	2.29E+04	-2.35E+04	2.28E+04	-2.90E+04	2.89E+04				

Table K–419. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle F_z^{ m rad} angle$	$\langle F_z^{\rm rad} angle$ Unfiltered $F_z^{\rm rad}$			$\mathbf{f} F_{oldsymbol{z}}^{ ext{rad}}$	Filtered $(oldsymbol{F_z^{\mathrm{rad}}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-1.37E-04	-1.40E+03	1.40E+03	-1.40E+03	1.39E+03	-2.79E+04	2.79E+04				
.10	-2.54E-04	-2.80E+03	2.80E+03	-2.79E+03	2.79E+03	-2.79E+04	2.79E+04				
.20	-5.84E-04	-5.59E+03	5.59E+03	-5.59E+03	5.57E+03	-2.79E+04	2.79E+04				
.40	-1.28E-03	-1.12E+04	1.12E+04	-1.12E+04	1.11E+04	-2.79E+04	2.79E+04				
.80	-1.30E-03	-2.24E+04	2.24E+04	-2.23E+04	2.23E+04	-2.79E+04	2.79E+04				

Table K–420. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-1										
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtere	d $oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-3.73E+03	-5.07E+03	-2.39E+03	-5.07E+03	-2.39E+03	-2.68E+04	2.67E+04				
.10	-3.73E+03	-6.41E+03	-1.05E+03	-6.41E+03	-1.06E+03	-2.68E+04	2.67E+04				
.20	-3.71E+03	-9.10E+03	1.62E+03	-9.09E+03	1.62E+03	-2.69E+04	2.66E+04				
.40	-3.64E+03	-1.45E+04	6.97E+03	-1.45E+04	6.95E+03	-2.71E+04	2.65E+04				
.80	-3.35E+03	-2.53E+04	1.76E+04	-2.53E+04	1.76E+04	-2.74E+04	2.62E+04				

Table K–421. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle F_z^{ m rad} angle$	Unfilter	ed $F_z^{ m rad}$	Filtere	d $oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_{z}^{\mathrm{rad}})^{*}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-3.73E+03	-5.07E+03	-2.39E+03	-5.07E+03	-2.39E+03	-2.68E+04	2.67E+04				
.10	-3.73E+03	-6.42E+03	-1.05E+03	-6.41E+03	-1.06E+03	-2.69E+04	2.67E+04				
.20	-3.71E+03	-9.11E+03	1.62E+03	-9.10E+03	1.62E+03	-2.70E+04	2.66E+04				
.40	-3.64E+03	-1.45E+04	6.97E+03	-1.45E+04	6.95E+03	-2.71E+04	2.65E+04				
.80	-3.36E+03	-2.53E+04	1.76E+04	-2.53E+04	1.76E+04	-2.74E+04	2.62E+04				

Table K–422. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle F_z^{ m rad} angle$	Unfilter	ed $F_z^{\rm rad}$	Filtere	$\mathbf{d} \; oldsymbol{F_z^{\mathrm{rad}}}$	Filtered $(F_z^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-3.82E+03	-5.51E+03	-2.04E+03	-5.50E+03	-2.11E+03	-3.36E+04	3.43E+04				
.10	-3.90E+03	-7.10E+03	-633.	-7.08E+03	-755.	-3.18E+04	3.15E+04				
.20	-4.10E+03	-9.94E+03	1.92E+03	-9.93E+03	1.83E+03	-2.92E+04	2.97E+04				
.40	-4.56E+03	-1.52E+04	6.55E+03	-1.51E+04	6.47E+03	-2.63E+04	2.76E+04				
.80	-5.98E+03	-2.46E+04	1.57E+04	-2.39E+04	1.52E+04	-2.24E+04	2.65E+04				

Table K–423. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\langle F_z^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NFA										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfilte	$\mathbf{red} \; F_{z}^{\mathrm{rad}}$	Filtere	$\mathbf{ed} \; F_{z}^{\mathrm{rad}}$	Filtere	$\mathbf{d} \left(\mathbf{F}_{z}^{\mathrm{rad}} \right)^{*}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	_	_	_	_	_	_					
.10											
.20	_	_					_				
.40	_	_		_		_	_				
.80											

Table K–424. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\langle F_z^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\mathrm{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-10.7	-1.35E+03	1.32E+03	-1.34E+03	1.30E+03	-2.66E+04	2.62E+04				
.10	-45.7	-2.70E+03	2.60E+03	-2.68E+03	2.57E+03	-2.63E+04	2.62E+04				
.20	-52.8	-5.38E+03	5.45E+03	-5.29E+03	5.36E+03	-2.62E+04	2.71E+04				
.40	-404.	-1.05E+04	9.53E+03	-1.03E+04	9.15E+03	-2.48E+04	2.39E+04				
.80	-1.40E+03	-1.98E+04	1.90E+04	-1.96E+04	1.75E+04	-2.27E+04	2.37E+04				

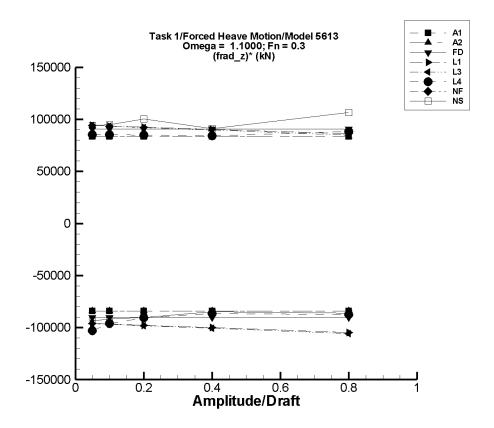


Figure K–54. Minimum and maximum of filtered $\left(F_z^{\rm rad} - \langle F_z^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–425. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfiltered $F_z^{\rm rad}$		Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered	$(oldsymbol{F_z^{\mathrm{rad}}})^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-9.93	-4.34E+03	4.31E+03	-4.21E+03	4.17E+03	-8.39E+04	8.36E+04				
.10	-19.9	-8.68E+03	8.61E+03	-8.41E+03	8.34E+03	-8.39E+04	8.36E+04				
.20	-39.7	-1.74E+04	1.72E+04	-1.68E+04	1.67E+04	-8.39E+04	8.36E+04				
.40	-79.4	-3.47E+04	3.44E+04	-3.37E+04	3.33E+04	-8.39E+04	8.36E+04				
.80	-159.	-6.95E+04	6.89E+04	-6.73E+04	6.67E+04	-8.39E+04	8.36E+04				

Table K–426. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfiltere	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$					
$ (z_a/T) $	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-9.93	-4.34E+03	4.31E+03	-4.21E+03	4.17E+03	-8.39E+04	8.36E+04				
.10	-19.9	-8.68E+03	8.61E+03	-8.41E+03	8.34E+03	-8.39E+04	8.36E+04				
.20	-39.7	-1.74E+04	1.72E+04	-1.68E+04	1.67E+04	-8.39E+04	8.36E+04				
.40	-79.4	-3.47E+04	3.44E+04	-3.37E+04	3.33E+04	-8.39E+04	8.36E+04				
.80	-159.	-6.95E+04	6.89E+04	-6.73E+04	6.67E+04	-8.39E+04	8.36E+04				

Table K–427. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle F_z^{ m rad} angle$	Unfiltered $F_z^{\rm rad}$		Filtered	l $oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05	-3.40E-05	-4.66E+03	4.66E+03	-4.52E+03	4.53E+03	-9.04E+04	9.06E+04				
.10	1.02E-04	-9.33E+03	9.33E+03	-9.04E+03	9.06E+03	-9.04E+04	9.06E+04				
.20	-3.03E-04	-1.87E+04	1.87E+04	-1.81E+04	1.81E+04	-9.04E+04	9.06E+04				
.40	-1.08E-03	-3.73E+04	3.73E+04	-3.62E+04	3.62E+04	-9.04E+04	9.06E+04				
.80	-1.25E-03	-7.46E+04	7.46E+04	-7.23E+04	7.25E+04	-9.04E+04	9.06E+04				

Table K–428. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle F_z^{ m rad} angle$	Unfiltered $F_z^{\rm rad}$		Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-3.74E+03	-8.58E+03	1.03E+03	-8.52E+03	981.	-9.56E+04	9.45E+04					
.10	-3.78E+03	-1.35E+04	5.72E+03	-1.34E+04	5.61E+03	-9.62E+04	9.39E+04					
.20	-3.93E+03	-2.36E+04	1.48E+04	-2.34E+04	1.46E+04	-9.73E+04	9.28E+04					
.40	-4.52E+03	-4.49E+04	3.21E+04	-4.44E+04	3.17E+04	-9.96E+04	9.07E+04					
.80	-6.88E+03	-9.15E+04	6.28E+04	-9.03E+04	6.23E+04	-1.04E+05	8.65E+04					

Table K–429. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-3											
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-3.74E+03	-8.59E+03	1.03E+03	-8.54E+03	982.	-9.58E+04	9.45E+04					
.10	-3.78E+03	-1.35E+04	5.71E+03	-1.34E+04	5.61E+03	-9.65E+04	9.39E+04					
.20	-3.93E+03	-2.37E+04	1.48E+04	-2.35E+04	1.46E+04	-9.77E+04	9.26E+04					
.40	-4.52E+03	-4.52E+04	3.19E+04	-4.46E+04	3.15E+04	-1.00E+05	9.01E+04					
.80	-6.88E+03	-9.25E+04	6.19E+04	-9.13E+04	6.14E+04	-1.06E+05	8.54E+04					

Table K–430. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{oldsymbol{z}}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{ ext{rad}}}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-3.86E+03	-9.06E+03	547.	-8.98E+03	437.	-1.02E+05	8.60E+04					
.10	-4.06E+03	-1.37E+04	4.68E+03	-1.36E+04	4.55E+03	-9.52E+04	8.60E+04					
.20	-4.72E+03	-2.28E+04	1.31E+04	-2.26E+04	1.24E+04	-8.95E+04	8.58E+04					
.40	-6.51E+03	-4.10E+04	3.07E+04	-4.06E+04	2.77E+04	-8.52E+04	8.55E+04					
.80	-1.06E+04	-8.01E+04	6.90E+04	-7.91E+04	6.16E+04	-8.55E+04	9.04E+04					

Table K–431. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NFA										
	$\langle oldsymbol{F_z^{ m rad}} angle$	Unfiltered $F_z^{\rm rad}$		Filtered $F_z^{\rm rad}$		Filtered	$\left(F_{z}^{\mathrm{rad}} \right)^{*}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)				
.05		_		_		_	_				
.10						_					
.20						—	_				
.40						_					
.80						_	_				

Table K–432. Minimum and Maximum of Variables $F_z^{\rm rad}$ and $\left(F_z^{\rm rad}\right)^*=\left(F_z^{\rm rad}-\left\langle F_z^{\rm rad}\right\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle F_z^{ m rad} angle$	Unfilter	$\mathbf{ed} \; F_{z}^{\mathrm{rad}}$	Filtered	$oldsymbol{F_z^{\mathrm{rad}}}$	Filtered $(F_z^{\text{rad}})^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)	(kN)					
.05	-62.6	-4.79E+03	4.69E+03	-4.75E+03	4.64E+03	-9.37E+04	9.41E+04					
.10	-244.	-9.50E+03	9.35E+03	-9.42E+03	9.23E+03	-9.17E+04	9.47E+04					
.20	-530.	-1.87E+04	2.00E+04	-1.86E+04	1.96E+04	-9.04E+04	1.00E+05					
.40	-2.58E+03	-3.69E+04	3.89E+04	-3.65E+04	3.39E+04	-8.48E+04	9.11E+04					
.80	-6.90E+03	-7.67E+04	9.13E+04	-7.58E+04	7.84E+04	-8.61E+04	1.07E+05					

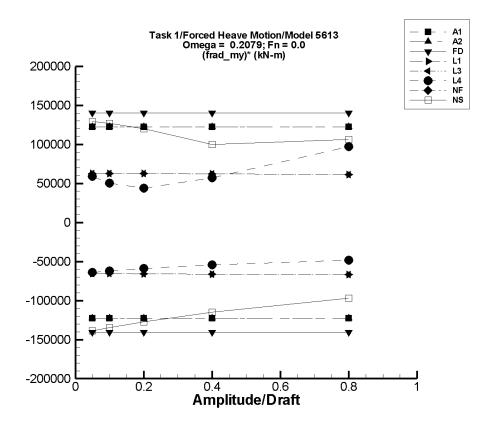


Figure K–55. Minimum and maximum of filtered $\left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–433. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	d $M_{m{y}}^{ m rad}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered	$\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-0.826	-6.13E+03	6.14E+03	-6.12E+03	6.13E+03	-1.22E+05	1.23E+05				
.10	-1.65	-1.23E+04	1.23E+04	-1.22E+04	1.23E+04	-1.22E+05	1.23E+05				
.20	-3.30	-2.45E+04	2.46E+04	-2.45E+04	2.45E+04	-1.22E+05	1.23E+05				
.40	-6.60	-4.91E+04	4.91E+04	-4.90E+04	4.90E+04	-1.22E+05	1.23E+05				
.80	-13.2	-9.82E+04	9.82E+04	-9.80E+04	9.81E+04	-1.22E+05	1.23E+05				

Table K–434. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	AEGIR-2											
	$\langle M_y^{ m rad} angle$	Unfiltere	d $m{M_y^{ m rad}}$	Filtered	l $m{M_y^{ ext{rad}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{rad}} \end{pmatrix}^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-0.826	-6.13E+03	6.14E+03	-6.12E+03	6.13E+03	-1.22E+05	1.23E+05					
.10	-1.65	-1.23E+04	1.23E+04	-1.22E+04	1.23E+04	-1.22E+05	1.23E+05					
.20	-3.30	-2.45E+04	2.46E+04	-2.45E+04	2.45E+04	-1.22E+05	1.23E+05					
.40	-6.60	-4.91E+04	4.91E+04	-4.90E+04	4.90E+04	-1.22E+05	1.23E+05					
.80	-13.2	-9.82E+04	9.82E+04	-9.80E+04	9.81E+04	-1.22E+05	1.23E+05					

Table K–435. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	FREDYN											
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{\mathrm{rad}}}$	Filtered	$oldsymbol{M_y^{ ext{rad}}}$	Filtered $\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-7.39E-04	-7.03E+03	7.03E+03	-7.02E+03	7.02E+03	-1.40E+05	1.40E+05					
.10	-2.21E-03	-1.41E+04	1.41E+04	-1.40E+04	1.40E+04	-1.40E+05	1.40E+05					
.20	-3.90E-03	-2.81E+04	2.81E+04	-2.81E+04	2.81E+04	-1.40E+05	1.40E+05					
.40	-8.37E-03	-5.62E+04	5.62E+04	-5.61E+04	5.61E+04	-1.40E+05	1.40E+05					
.80	-2.12E-02	-1.12E+05	1.12E+05	-1.12E+05	1.12E+05	-1.40E+05	1.40E+05					

Table K–436. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-1												
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	d $m{M}^{ ext{rad}}_{m{y}}$	Filtered	l $m{M}^{ ext{rad}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^*$							
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.						
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)						
.05	4.42	-3.21E+03	3.21E+03	-3.21E+03	3.20E+03	-6.42E+04	6.40E+04						
.10	17.7	-6.41E+03	6.41E+03	-6.41E+03	6.41E+03	-6.43E+04	6.39E+04						
.20	70.7	-1.28E+04	1.28E+04	-1.28E+04	1.28E+04	-6.45E+04	6.37E+04						
.40	283.	-2.57E+04	2.56E+04	-2.57E+04	2.56E+04	-6.48E+04	6.34E+04						
.80	1.13E+03	-5.14E+04	5.12E+04	-5.13E+04	5.12E+04	-6.56E+04	6.26E+04						

Table K–437. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-3											
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{rad}}$	Filtered	$oldsymbol{M_y^{ ext{rad}}}$	Filtered $egin{pmatrix} m{M_y^{ ext{rad}}} \end{pmatrix}^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	4.42	-3.21E+03	3.21E+03	-3.21E+03	3.20E+03	-6.42E+04	6.40E+04					
.10	17.7	-6.41E+03	6.41E+03	-6.41E+03	6.41E+03	-6.43E+04	6.39E+04					
.20	70.7	-1.28E+04	1.28E+04	-1.28E+04	1.28E+04	-6.45E+04	6.37E+04					
.40	283.	-2.57E+04	2.56E+04	-2.57E+04	2.56E+04	-6.48E+04	6.34E+04					
.80	1.13E+03	-5.14E+04	5.12E+04	-5.13E+04	5.12E+04	-6.56E+04	6.26E+04					

Table K–438. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; oldsymbol{M_{oldsymbol{y}}^{\mathrm{rad}}}$	Filtered	$m{M}^{ ext{rad}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ m rad}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-19.8	-3.17E+03	2.99E+03	-3.17E+03	2.99E+03	-6.29E+04	6.01E+04				
.10	-147.	-6.25E+03	4.99E+03	-6.25E+03	4.99E+03	-6.11E+04	5.14E+04				
.20	-709.	-1.22E+04	9.57E+03	-1.22E+04	8.36E+03	-5.76E+04	4.54E+04				
.40	-2.60E+03	-2.37E+04	2.31E+04	-2.37E+04	2.09E+04	-5.27E+04	5.87E+04				
.80	-8.23E+03	-4.57E+04	8.01E+04	-4.57E+04	7.09E+04	-4.68E+04	9.89E+04				

Table K–439. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NFA										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	iltered $M_u^{ m rad}$ Filtered $M_u^{ m rad}$		$m{M}_{m{y}}^{ ext{rad}}$	Filtered	$\left(oldsymbol{M_y}^{\mathrm{rad}} ight)^{oldsymbol{*}}$				
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min.	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)				
.05	(KI (-III)	(KI (-III)	(KI (-III)	(K1 (-III)	(KI (-III)	(Kr (-III)	(KI (-III)				
.10	_										
.20	_			_							
.40	_			_			_				
.80	_			<u> </u>			_				

Table K–440. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.0$)

	NSHIPMO											
	$\langle M_{m{y}}^{ m rad} angle$	Unfiltere	d $M_y^{ m rad}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-225.	-7.23E+03	6.30E+03	-7.16E+03	6.24E+03	-1.39E+05	1.29E+05					
.10	-522.	-1.42E+04	1.23E+04	-1.40E+04	1.22E+04	-1.35E+05	1.27E+05					
.20	-2.27E+03	-2.81E+04	2.26E+04	-2.77E+04	2.17E+04	-1.27E+05	1.20E+05					
.40	-6.64E+03	-5.33E+04	4.62E+04	-5.26E+04	3.33E+04	-1.15E+05	1.00E+05					
.80	-1.86E+04	-9.79E+04	1.01E+05	-9.64E+04	6.63E+04	-9.72E+04	1.06E+05					

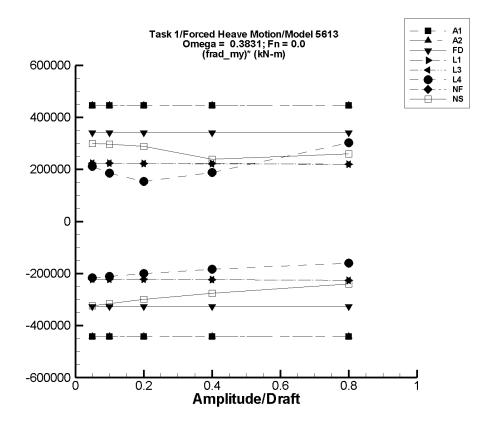


Figure K–56. Minimum and maximum of filtered $\left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–441. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-1										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	d $m{M}^{ ext{rad}}_{m{y}}$	Filtered	Filtered $oldsymbol{M_{u}^{\mathrm{rad}}}$		Filtered $\left(oldsymbol{M_y^{ m rad}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-8.98	-2.22E+04	2.24E+04	-2.22E+04	2.23E+04	-4.43E+05	4.46E+05				
.10	-18.0	-4.44E+04	4.48E+04	-4.43E+04	4.46E+04	-4.43E+05	4.46E+05				
.20	-35.9	-8.89E+04	8.95E+04	-8.86E+04	8.92E+04	-4.43E+05	4.46E+05				
.40	-71.8	-1.78E+05	1.79E+05	-1.77E+05	1.78E+05	-4.43E+05	4.46E+05				
.80	-144.	-3.56E+05	3.58E+05	-3.54E+05	3.57E+05	-4.43E+05	4.46E+05				

Table K–442. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	AEGIR-2									
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; oldsymbol{M_y^{ ext{rad}}}$	Filtered	Filtered $oldsymbol{M_y^{\mathrm{rad}}}$		Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)			
.05	-8.98	-2.22E+04	2.24E+04	-2.22E+04	2.23E+04	-4.43E+05	4.46E+05			
.10	-18.0	-4.44E+04	4.48E+04	-4.43E+04	4.46E+04	-4.43E+05	4.46E+05			
.20	-35.9	-8.89E+04	8.95E+04	-8.86E+04	8.92E+04	-4.43E+05	4.46E+05			
.40	-71.8	-1.78E+05	1.79E+05	-1.77E+05	1.78E+05	-4.43E+05	4.46E+05			
.80	-144.	-3.56E+05	3.58E+05	-3.54E+05	3.57E+05	-4.43E+05	4.46E+05			

Table K–443. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	FREDYN									
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} oldsymbol{M_{oldsymbol{y}}^{\mathrm{rad}}}$	Filtered	Filtered $oldsymbol{M_u^{\mathrm{rad}}}$		Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)			
.05	-8.92E-04	-1.67E+04	1.67E+04	-1.67E+04	1.67E+04	-3.35E+05	3.33E+05			
.10	-3.54E-03	-3.35E+04	3.35E+04	-3.35E+04	3.33E+04	-3.35E+05	3.33E+05			
.20	-5.22E-03	-6.69E+04	6.69E+04	-6.69E+04	6.67E+04	-3.35E+05	3.33E+05			
.40	-1.02E-02	-1.34E+05	1.34E+05	-1.34E+05	1.33E+05	-3.35E+05	3.33E+05			
.80	-1.82E-02	-2.68E+05	2.68E+05	-2.68E+05	2.67E+05	-3.35E+05	3.33E+05			

Table K–444. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-1										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	d $m{M}^{ ext{rad}}_{m{y}}$	Filtered	Filtered M_u^{rad}		$\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	11.6	-1.12E+04	1.12E+04	-1.11E+04	1.11E+04	-2.23E+05	2.23E+05				
.10	46.4	-2.23E+04	2.23E+04	-2.23E+04	2.23E+04	-2.23E+05	2.22E+05				
.20	186.	-4.47E+04	4.46E+04	-4.46E+04	4.45E+04	-2.24E+05	2.22E+05				
.40	745.	-8.94E+04	8.91E+04	-8.93E+04	8.90E+04	-2.25E+05	2.21E+05				
.80	2.98E+03	-1.79E+05	1.78E+05	-1.79E+05	1.78E+05	-2.27E+05	2.18E+05				

Table K–445. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	d $m{M_y^{ m rad}}$	Filtered	$oldsymbol{M_y^{ ext{rad}}}$	Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	11.6	-1.12E+04	1.12E+04	-1.11E+04	1.11E+04	-2.23E+05	2.23E+05				
.10	46.4	-2.23E+04	2.23E+04	-2.23E+04	2.23E+04	-2.23E+05	2.22E+05				
.20	186.	-4.47E+04	4.46E+04	-4.46E+04	4.45E+04	-2.24E+05	2.22E+05				
.40	745.	-8.95E+04	8.90E+04	-8.93E+04	8.89E+04	-2.25E+05	2.20E+05				
.80	2.98E+03	-1.79E+05	1.78E+05	-1.79E+05	1.77E+05	-2.28E+05	2.18E+05				

Table K–446. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} M_{m{y}}^{ ext{rad}}$	Filtered $M_{m{u}}^{ m rad}$		Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{rad}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-60.5	-1.10E+04	1.05E+04	-1.10E+04	1.05E+04	-2.19E+05	2.11E+05				
.10	-484.	-2.17E+04	1.81E+04	-2.17E+04	1.79E+04	-2.12E+05	1.84E+05				
.20	-2.30E+03	-4.26E+04	3.02E+04	-4.26E+04	2.83E+04	-2.01E+05	1.53E+05				
.40	-8.80E+03	-8.28E+04	7.37E+04	-8.27E+04	6.62E+04	-1.85E+05	1.87E+05				
.80	-3.18E+04	-1.61E+05	2.63E+05	-1.61E+05	2.10E+05	-1.61E+05	3.02E+05				

Table K–447. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NFA									
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	Unfiltered M_y^{rad} Filter			Filtered $\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)			
.05		_	_	_		_				
.10	_		_	_						
.20	—		_	_						
.40	—					_				
.80			—	<u> </u>						

Table K–448. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.0$)

	NSHIPMO									
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltered $M_y^{ m rad}$		Filtered $oldsymbol{M_y^{ ext{rad}}}$		Filtered $\left(oldsymbol{M_y^{ ext{rad}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)			
.05	-594.	-1.69E+04	1.46E+04	-1.68E+04	1.44E+04	-3.24E+05	3.00E+05			
.10	-1.31E+03	-3.32E+04	2.89E+04	-3.29E+04	2.84E+04	-3.16E+05	2.97E+05			
.20	-5.48E+03	-6.65E+04	5.48E+04	-6.54E+04	5.22E+04	-2.99E+05	2.89E+05			
.40	-1.51E+04	-1.27E+05	1.09E+05	-1.25E+05	8.02E+04	-2.75E+05	2.38E+05			
.80	-4.03E+04	-2.37E+05	2.51E+05	-2.33E+05	1.67E+05	-2.40E+05	2.59E+05			

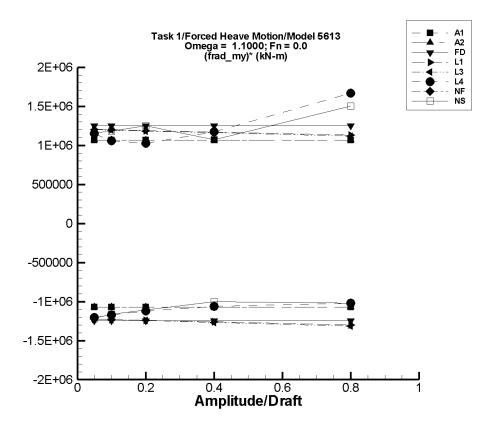


Figure K–57. Minimum and maximum of filtered $\left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.0$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–449. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-1									
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{rad}}$	Filtered $oldsymbol{M_{u}^{ ext{rad}}}$		Filtered $\left(oldsymbol{M_y^{ ext{rad}}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.			
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)			
.05	-419.	-5.58E+04	5.47E+04	-5.41E+04	5.31E+04	-1.07E+06	1.07E+06			
.10	-838.	-1.12E+05	1.09E+05	-1.08E+05	1.06E+05	-1.07E+06	1.07E+06			
.20	-1.68E+03	-2.23E+05	2.19E+05	-2.16E+05	2.12E+05	-1.07E+06	1.07E+06			
.40	-3.35E+03	-4.46E+05	4.38E+05	-4.33E+05	4.24E+05	-1.07E+06	1.07E+06			
.80	-6.71E+03	-8.93E+05	8.76E+05	-8.65E+05	8.49E+05	-1.07E+06	1.07E+06			

Table K–450. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	AEGIR-2										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	d $M_y^{ m rad}$	Filtered	Filtered M_u^{rad}		Filtered $egin{pmatrix} M_{m{y}}^{ ext{rad}} \end{pmatrix}^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-419.	-5.58E+04	5.47E+04	-5.41E+04	5.31E+04	-1.07E+06	1.07E+06				
.10	-838.	-1.12E+05	1.09E+05	-1.08E+05	1.06E+05	-1.07E+06	1.07E+06				
.20	-1.68E+03	-2.23E+05	2.19E+05	-2.16E+05	2.12E+05	-1.07E+06	1.07E+06				
.40	-3.35E+03	-4.46E+05	4.38E+05	-4.33E+05	4.24E+05	-1.07E+06	1.07E+06				
.80	-6.71E+03	-8.93E+05	8.76E+05	-8.65E+05	8.49E+05	-1.07E+06	1.07E+06				

Table K–451. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	FREDYN										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; oldsymbol{M_{oldsymbol{y}}^{\mathrm{rad}}}$	Filtered	l $oldsymbol{M^{ ext{rad}}_{oldsymbol{y}}}$	Filtered $\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-3.39E-03	-6.44E+04	6.44E+04	-6.24E+04	6.26E+04	-1.25E+06	1.25E+06				
.10	-7.79E-03	-1.29E+05	1.29E+05	-1.25E+05	1.25E+05	-1.25E+06	1.25E+06				
.20	-2.72E-02	-2.58E+05	2.58E+05	-2.50E+05	2.50E+05	-1.25E+06	1.25E+06				
.40	-4.37E-02	-5.15E+05	5.15E+05	-4.99E+05	5.01E+05	-1.25E+06	1.25E+06				
.80	-5.29E-02	-1.03E+06	1.03E+06	-9.99E+05	1.00E+06	-1.25E+06	1.25E+06				

Table K–452. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-1											
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	d $m{M}^{ ext{rad}}_{m{y}}$	Filtered	l $m{M}^{ ext{rad}}_{m{y}}$	Filtered	$\left(oldsymbol{M_y}^{\mathrm{rad}} ight)^{oldsymbol{st}}$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	16.4	-6.16E+04	6.12E+04	-6.09E+04	6.05E+04	-1.22E+06	1.21E+06					
.10	65.4	-1.24E+05	1.22E+05	-1.22E+05	1.21E+05	-1.22E+06	1.21E+06					
.20	261.	-2.49E+05	2.42E+05	-2.46E+05	2.39E+05	-1.23E+06	1.20E+06					
.40	1.05E+03	-5.06E+05	4.77E+05	-5.00E+05	4.72E+05	-1.25E+06	1.18E+06					
.80	4.18E+03	-1.04E+06	9.24E+05	-1.03E+06	9.16E+05	-1.29E+06	1.14E+06					

Table K–453. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-3										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{rad}}$	Filtered	$m{M}^{ ext{rad}}_{m{y}}$	Filtered	$\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	16.4	-6.16E+04	6.11E+04	-6.09E+04	6.04E+04	-1.22E+06	1.21E+06				
.10	65.4	-1.24E+05	1.22E+05	-1.22E+05	1.20E+05	-1.22E+06	1.20E+06				
.20	262.	-2.50E+05	2.41E+05	-2.47E+05	2.38E+05	-1.24E+06	1.19E+06				
.40	1.05E+03	-5.09E+05	4.73E+05	-5.02E+05	4.69E+05	-1.26E+06	1.17E+06				
.80	4.18E+03	-1.05E+06	9.13E+05	-1.04E+06	9.05E+05	-1.31E+06	1.13E+06				

Table K–454. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	LAMP-4										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} M_{m{y}}^{ ext{rad}}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $\left(oldsymbol{M_y^{ m rad}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-305.	-6.07E+04	5.85E+04	-6.01E+04	5.76E+04	-1.20E+06	1.16E+06				
.10	-2.83E+03	-1.20E+05	1.05E+05	-1.19E+05	1.04E+05	-1.16E+06	1.07E+06				
.20	-1.18E+04	-2.35E+05	2.16E+05	-2.32E+05	1.97E+05	-1.10E+06	1.04E+06				
.40	-3.78E+04	-4.57E+05	5.84E+05	-4.52E+05	4.43E+05	-1.04E+06	1.20E+06				
.80	-1.12E+05	-9.11E+05	1.57E+06	-8.98E+05	1.25E+06	-9.83E+05	1.70E+06				

Table K–455. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NFA										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{rad}}$	Filtered	$m{M}_{m{y}}^{ ext{rad}}$	Filtered $\left(oldsymbol{M_y^{ m rad}} ight)^*$					
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min.	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)				
.05	(KI (-III)	(KI (-III)	(KI (-III)	(K1 (-III)	(KI (-III)	(Kr (-III)	(KI (-III)				
.10	_										
.20	_			_							
.40	_			_			_				
.80	_			<u> </u>			_				

Table K–456. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.0$)

	NSHIPMO										
	$\langle oldsymbol{M_y^{ m rad}} angle$	Unfiltered $M_y^{ m rad}$		Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{rad}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-2.58E+03	-6.38E+04	5.62E+04	-6.33E+04	5.55E+04	-1.21E+06	1.16E+06				
.10	-5.89E+03	-1.23E+05	1.15E+05	-1.22E+05	1.12E+05	-1.16E+06	1.18E+06				
.20	-2.38E+04	-2.49E+05	2.43E+05	-2.46E+05	2.27E+05	-1.11E+06	1.25E+06				
.40	-6.02E+04	-4.71E+05	5.65E+05	-4.62E+05	3.69E+05	-1.00E+06	1.07E+06				
.80	-1.09E+05	-9.50E+05	1.83E+06	-9.26E+05	1.10E+06	-1.02E+06	1.51E+06				

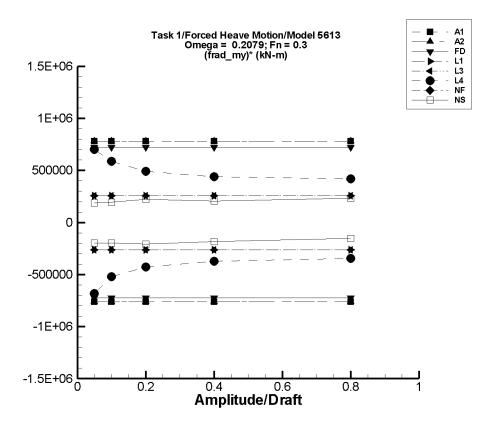


Figure K–58. Minimum and maximum of filtered $\left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.2079$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–457. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle M_{m{y}}^{ ext{rad}} angle$	$\langle M_u^{ m rad} angle$ Unfiltered $M_u^{ m rad}$			$M_{m{y}}^{ ext{rad}}$	Filtered	$\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-36.7	-3.82E+04	3.91E+04	-3.81E+04	3.89E+04	-7.62E+05	7.79E+05				
.10	-73.4	-7.64E+04	7.82E+04	-7.63E+04	7.79E+04	-7.62E+05	7.79E+05				
.20	-147.	-1.53E+05	1.56E+05	-1.53E+05	1.56E+05	-7.62E+05	7.79E+05				
.40	-294.	-3.06E+05	3.13E+05	-3.05E+05	3.11E+05	-7.62E+05	7.79E+05				
.80	-587.	-6.11E+05	6.25E+05	-6.10E+05	6.23E+05	-7.62E+05	7.79E+05				

Table K–458. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	AEGIR-2											
	$\langle M_y^{ m rad} angle$	Unfiltere	d $M_y^{ m rad}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $\left(oldsymbol{M_y^{ ext{rad}}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-36.7	-3.82E+04	3.91E+04	-3.81E+04	3.89E+04	-7.62E+05	7.79E+05					
.10	-73.4	-7.64E+04	7.82E+04	-7.63E+04	7.79E+04	-7.62E+05	7.79E+05					
.20	-147.	-1.53E+05	1.56E+05	-1.53E+05	1.56E+05	-7.62E+05	7.79E+05					
.40	-294.	-3.06E+05	3.13E+05	-3.05E+05	3.11E+05	-7.62E+05	7.79E+05					
.80	-587.	-6.11E+05	6.25E+05	-6.10E+05	6.23E+05	-7.62E+05	7.79E+05					

Table K–459. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; oldsymbol{M_{oldsymbol{y}}^{\mathrm{rad}}}$	Filtered	l $oldsymbol{M^{ ext{rad}}_{oldsymbol{y}}}$	Filtered	$\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	1.39E-03	-3.62E+04	3.62E+04	-3.61E+04	3.61E+04	-7.23E+05	7.23E+05				
.10	5.51E-04	-7.24E+04	7.24E+04	-7.23E+04	7.23E+04	-7.23E+05	7.23E+05				
.20	4.71E-03	-1.45E+05	1.45E+05	-1.45E+05	1.45E+05	-7.23E+05	7.23E+05				
.40	5.79E-03	-2.90E+05	2.90E+05	-2.89E+05	2.89E+05	-7.23E+05	7.23E+05				
.80	7.94E-03	-5.79E+05	5.79E+05	-5.78E+05	5.78E+05	-7.23E+05	7.23E+05				

Table K–460. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle M_{m{y}}^{ m rad} angle$	Unfiltere	$\mathbf{d} M_{m{y}}^{ ext{rad}}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-1.07E+04	-2.36E+04	2.32E+03	-2.36E+04	2.31E+03	-2.59E+05	2.60E+05					
.10	-1.06E+04	-3.66E+04	1.54E+04	-3.65E+04	1.53E+04	-2.59E+05	2.60E+05					
.20	-1.05E+04	-6.23E+04	4.15E+04	-6.23E+04	4.15E+04	-2.59E+05	2.60E+05					
.40	-9.83E+03	-1.13E+05	9.43E+04	-1.13E+05	9.42E+04	-2.59E+05	2.60E+05					
.80	-7.29E+03	-2.14E+05	2.02E+05	-2.14E+05	2.01E+05	-2.58E+05	2.61E+05					

Table K–461. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{rad}}$	Filtered	$m{M}^{ ext{rad}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ m rad}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.07E+04	-2.36E+04	2.31E+03	-2.36E+04	2.30E+03	-2.59E+05	2.60E+05				
.10	-1.06E+04	-3.66E+04	1.53E+04	-3.66E+04	1.53E+04	-2.59E+05	2.60E+05				
.20	-1.05E+04	-6.23E+04	4.15E+04	-6.23E+04	4.15E+04	-2.59E+05	2.60E+05				
.40	-9.84E+03	-1.13E+05	9.43E+04	-1.13E+05	9.42E+04	-2.59E+05	2.60E+05				
.80	-7.30E+03	-2.14E+05	2.02E+05	-2.14E+05	2.01E+05	-2.58E+05	2.61E+05				

Table K–462. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	LAMP-4											
	$\langle M_y^{ m rad} angle$	Unfiltere	d $M_y^{ m rad}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $\left(oldsymbol{M_y^{ m rad}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-1.50E+04	-4.85E+04	2.59E+04	-4.84E+04	2.08E+04	-6.67E+05	7.16E+05					
.10	-2.06E+04	-7.16E+04	4.48E+04	-7.15E+04	3.94E+04	-5.09E+05	6.00E+05					
.20	-3.14E+04	-1.16E+05	8.61E+04	-1.16E+05	6.84E+04	-4.21E+05	4.99E+05					
.40	-4.59E+04	-1.96E+05	1.56E+05	-1.93E+05	1.33E+05	-3.67E+05	4.48E+05					
.80	-6.60E+04	-3.38E+05	2.94E+05	-3.36E+05	2.74E+05	-3.38E+05	4.25E+05					

Table K–463. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NFA										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{rad}}$	Filtered	$m{M}_{m{y}}^{ ext{rad}}$	Filtered $\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^*$					
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min.	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)				
.05	(KI (-III)	(KI (-III)	(KI (-III)	(K1 (-III)	(KI (-III)	(Kr (-III)	(KI (-III)				
.10	_										
.20	_			_							
.40	_			_			_				
.80	_			<u> </u>			_				

Table K–464. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.2079$ rad/s, $F_n=0.3$)

	NSHIPMO										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Filtered	$M_{m{y}}^{ m rad}$	Filtered $\left(oldsymbol{M_y^{ ext{rad}}} ight)^*$							
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-242.	-1.02E+04	9.20E+03	-1.01E+04	9.13E+03	-1.97E+05	1.87E+05				
.10	-1.42E+03	-2.15E+04	1.84E+04	-2.13E+04	1.82E+04	-1.99E+05	1.96E+05				
.20	-1.75E+03	-4.39E+04	4.49E+04	-4.35E+04	4.28E+04	-2.09E+05	2.23E+05				
.40	-1.25E+04	-8.64E+04	8.64E+04	-8.56E+04	6.97E+04	-1.83E+05	2.06E+05				
.80	-3.45E+04	-1.58E+05	1.82E+05	-1.57E+05	1.53E+05	-1.53E+05	2.34E+05				

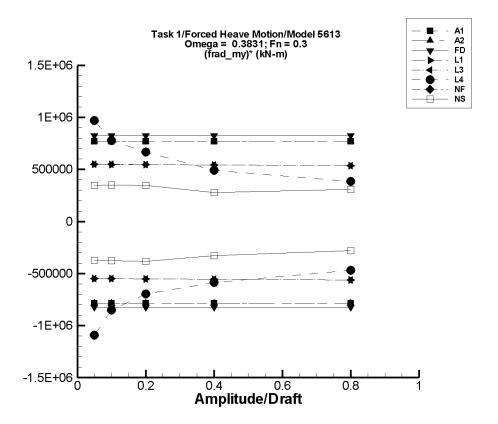


Figure K–59. Minimum and maximum of filtered $\left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=0.3831$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–465. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle M_{m{y}}^{ ext{rad}} angle$	$\langle M_{m{u}}^{ m rad} angle \hspace{0.5cm} ext{Unfiltered} \hspace{0.5cm} M_{m{u}}^{ m rad} \hspace{0.5cm} ext{}$			$M_{m{y}}^{ ext{rad}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{rad}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-88.2	-3.95E+04	3.90E+04	-3.93E+04	3.84E+04	-7.85E+05	7.71E+05				
.10	-176.	-7.90E+04	7.80E+04	-7.87E+04	7.69E+04	-7.85E+05	7.71E+05				
.20	-353.	-1.58E+05	1.56E+05	-1.57E+05	1.54E+05	-7.85E+05	7.71E+05				
.40	-705.	-3.16E+05	3.12E+05	-3.15E+05	3.08E+05	-7.85E+05	7.71E+05				
.80	-1.41E+03	-6.32E+05	6.24E+05	-6.29E+05	6.15E+05	-7.85E+05	7.71E+05				

Table K–466. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle M_{m{y}}^{ m rad} angle$	Unfiltere	$\mathbf{d} M_{m{y}}^{ ext{rad}}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-88.2	-3.95E+04	3.90E+04	-3.93E+04	3.84E+04	-7.85E+05	7.71E+05				
.10	-176.	-7.90E+04	7.80E+04	-7.87E+04	7.69E+04	-7.85E+05	7.71E+05				
.20	-353.	-1.58E+05	1.56E+05	-1.57E+05	1.54E+05	-7.85E+05	7.71E+05				
.40	-705.	-3.16E+05	3.12E+05	-3.15E+05	3.08E+05	-7.85E+05	7.71E+05				
.80	-1.41E+03	-6.32E+05	6.24E+05	-6.29E+05	6.15E+05	-7.85E+05	7.71E+05				

Table K–467. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	FREDYN										
	$\langle oldsymbol{M_y^{ m rad}} angle$	Unfiltere	$\mathbf{d} \; oldsymbol{M_{oldsymbol{y}}^{\mathrm{rad}}}$	Filtered	l $oldsymbol{M^{ ext{rad}}_{oldsymbol{y}}}$	Filtered	$\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^{oldsymbol{st}}$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-3.21E-03	-4.14E+04	4.14E+04	-4.12E+04	4.12E+04	-8.24E+05	8.24E+05				
.10	-6.49E-03	-8.27E+04	8.27E+04	-8.24E+04	8.24E+04	-8.24E+05	8.24E+05				
.20	-1.28E-02	-1.65E+05	1.65E+05	-1.65E+05	1.65E+05	-8.24E+05	8.24E+05				
.40	-1.77E-02	-3.31E+05	3.31E+05	-3.30E+05	3.30E+05	-8.24E+05	8.24E+05				
.80	-4.74E-02	-6.62E+05	6.62E+05	-6.60E+05	6.60E+05	-8.24E+05	8.24E+05				

Table K–468. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-1											
	$\langle M_{m{y}}^{ m rad} angle$	Unfiltere	$\mathbf{d} M_{m{y}}^{ ext{rad}}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $\left(M_{m{y}}^{ m rad} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-1.06E+04	-3.81E+04	1.68E+04	-3.81E+04	1.67E+04	-5.49E+05	5.47E+05					
.10	-1.05E+04	-6.55E+04	4.42E+04	-6.54E+04	4.41E+04	-5.50E+05	5.46E+05					
.20	-9.79E+03	-1.20E+05	9.92E+04	-1.20E+05	9.91E+04	-5.51E+05	5.44E+05					
.40	-7.13E+03	-2.29E+05	2.09E+05	-2.29E+05	2.09E+05	-5.55E+05	5.41E+05					
.80	3.51E+03	-4.47E+05	4.32E+05	-4.47E+05	4.31E+05	-5.63E+05	5.34E+05					

Table K–469. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-3										
	$\langle M_{m{y}}^{ ext{rad}} angle$	$\langle M_y^{ m rad} angle \hspace{0.5cm} ext{Unfiltered} \hspace{0.5cm} M_y^{ m rad}$			l $oldsymbol{M^{ ext{rad}}_{oldsymbol{y}}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{rad}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.06E+04	-3.82E+04	1.68E+04	-3.81E+04	1.68E+04	-5.50E+05	5.48E+05				
.10	-1.05E+04	-6.56E+04	4.43E+04	-6.55E+04	4.43E+04	-5.51E+05	5.47E+05				
.20	-9.79E+03	-1.20E+05	9.95E+04	-1.20E+05	9.93E+04	-5.53E+05	5.46E+05				
.40	-7.13E+03	-2.30E+05	2.10E+05	-2.30E+05	2.10E+05	-5.56E+05	5.42E+05				
.80	3.51E+03	-4.48E+05	4.33E+05	-4.47E+05	4.32E+05	-5.64E+05	5.36E+05				

Table K–470. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	LAMP-4										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	d $M_y^{ m rad}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $egin{pmatrix} m{M}_{m{y}}^{ ext{rad}} \end{pmatrix}^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-1.50E+04	-7.00E+04	3.70E+04	-6.97E+04	3.33E+04	-1.10E+06	9.65E+05				
.10	-2.14E+04	-1.07E+05	6.36E+04	-1.07E+05	5.60E+04	-8.54E+05	7.74E+05				
.20	-3.60E+04	-1.76E+05	1.13E+05	-1.76E+05	9.67E+04	-6.98E+05	6.64E+05				
.40	-6.35E+04	-3.00E+05	1.76E+05	-2.98E+05	1.33E+05	-5.86E+05	4.90E+05				
.80	-1.24E+05	-5.04E+05	2.29E+05	-4.99E+05	1.84E+05	-4.69E+05	3.85E+05				

Table K–471. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NFA										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{rad}}$	Filtered	$m{M}_{m{y}}^{ ext{rad}}$	Filtered $\left(oldsymbol{M_y^{\mathrm{rad}}} ight)^*$					
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min.	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)				
.05	(KI (-III)	(KI (-III)	(KI (-III)	(K1 (-III)	(KI (-III)	(Kr (-III)	(KI (-III)				
.10	_										
.20	_			_							
.40	_			_			_				
.80	_			<u> </u>			_				

Table K–472. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=0.3831$ rad/s, $F_n=0.3$)

	NSHIPMO											
	$\langle M_{m{y}}^{ m rad} angle$	Unfiltere	d $M_{m{y}}^{ ext{rad}}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$						
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.					
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)					
.05	-362.	-1.92E+04	1.72E+04	-1.90E+04	1.70E+04	-3.73E+05	3.48E+05					
.10	-2.39E+03	-4.04E+04	3.28E+04	-4.00E+04	3.25E+04	-3.76E+05	3.49E+05					
.20	-2.91E+03	-8.02E+04	6.84E+04	-7.95E+04	6.61E+04	-3.83E+05	3.45E+05					
.40	-2.20E+04	-1.55E+05	1.03E+05	-1.53E+05	8.86E+04	-3.28E+05	2.77E+05					
.80	-5.73E+04	-2.84E+05	2.31E+05	-2.81E+05	1.90E+05	-2.80E+05	3.10E+05					

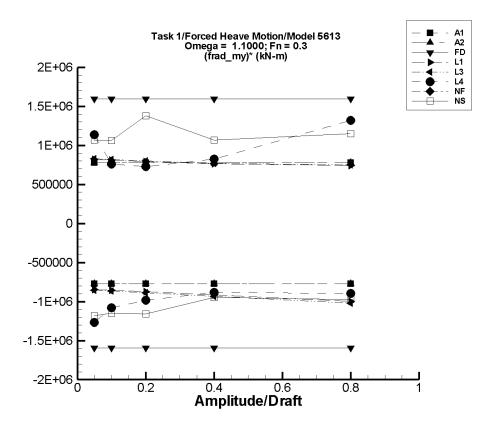


Figure K–60. Minimum and maximum of filtered $\left(M_y^{\rm rad} - \langle M_y^{\rm rad} \rangle\right)/(z_a/T)$ vs. (z_a/T) for $\omega=1.1000$ rad/s, $F_n=0.3$ in the case of task 1, forced heave motion, and Model 5613 scaled to L = 154 m.

Table K–473. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-1										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{rad}}$	Filtered	$m{M}^{ ext{rad}}_{m{y}}$	Filtered $\left(oldsymbol{M_y^{ ext{rad}}} ight)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-792.	-4.05E+04	3.94E+04	-3.93E+04	3.81E+04	-7.71E+05	7.78E+05				
.10	-1.58E+03	-8.10E+04	7.87E+04	-7.87E+04	7.63E+04	-7.71E+05	7.78E+05				
.20	-3.17E+03	-1.62E+05	1.57E+05	-1.57E+05	1.53E+05	-7.71E+05	7.78E+05				
.40	-6.34E+03	-3.24E+05	3.15E+05	-3.15E+05	3.05E+05	-7.71E+05	7.78E+05				
.80	-1.27E+04	-6.48E+05	6.30E+05	-6.29E+05	6.10E+05	-7.71E+05	7.78E+05				

Table K–474. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (AEGIR-2, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

	AEGIR-2										
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	d $M_y^{ m rad}$	Filtered	$M_{m{y}}^{ ext{rad}}$	Filtered $ig(M_{m{y}}^{ ext{rad}}ig)^*$					
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.				
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)				
.05	-792.	-4.05E+04	3.94E+04	-3.93E+04	3.81E+04	-7.71E+05	7.78E+05				
.10	-1.58E+03	-8.10E+04	7.87E+04	-7.87E+04	7.63E+04	-7.71E+05	7.78E+05				
.20	-3.17E+03	-1.62E+05	1.57E+05	-1.57E+05	1.53E+05	-7.71E+05	7.78E+05				
.40	-6.34E+03	-3.24E+05	3.15E+05	-3.15E+05	3.05E+05	-7.71E+05	7.78E+05				
.80	-1.27E+04	-6.48E+05	6.30E+05	-6.29E+05	6.10E+05	-7.71E+05	7.78E+05				

Table K–475. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (FREDYN, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

FREDYN									
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltered $oldsymbol{M_y^{ ext{rad}}}$		Filtered $oldsymbol{M_y^{ ext{rad}}}$		Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)		
.05	-3.41E-03	-8.24E+04	8.24E+04	-7.99E+04	7.97E+04	-1.60E+06	1.59E+06		
.10	-6.87E-03	-1.65E+05	1.65E+05	-1.60E+05	1.59E+05	-1.60E+06	1.59E+06		
.20	-1.75E-03	-3.30E+05	3.29E+05	-3.20E+05	3.19E+05	-1.60E+06	1.59E+06		
.40	-2.71E-02	-6.59E+05	6.59E+05	-6.39E+05	6.38E+05	-1.60E+06	1.59E+06		
.80	1.77E-02	-1.32E+06	1.32E+06	-1.28E+06	1.28E+06	-1.60E+06	1.59E+06		

Table K–476. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-1, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

LAMP-1									
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	d $M_y^{ m rad}$	Filtered $oldsymbol{M_y^{ ext{rad}}}$		Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)		
.05	-1.08E+04	-5.33E+04	3.08E+04	-5.28E+04	3.04E+04	-8.41E+05	8.23E+05		
.10	-1.11E+04	-9.71E+04	7.12E+04	-9.60E+04	7.04E+04	-8.50E+05	8.15E+05		
.20	-1.23E+04	-1.88E+05	1.49E+05	-1.86E+05	1.47E+05	-8.68E+05	7.99E+05		
.40	-1.73E+04	-3.85E+05	2.94E+05	-3.80E+05	2.91E+05	-9.07E+05	7.71E+05		
.80	-3.73E+04	-8.42E+05	5.67E+05	-8.29E+05	5.60E+05	-9.90E+05	7.47E+05		

Table K–477. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-3, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

LAMP-3									
	$\langle M_y^{ m rad} angle \hspace{0.5cm} ext{Unfiltered} \hspace{0.1cm} M_y^{ m rad}$			Filtered $oldsymbol{M_y^{ ext{rad}}}$		Filtered $\left(M_{m{y}}^{ m rad} ight)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)		
.05	-1.08E+04	-5.39E+04	3.13E+04	-5.34E+04	3.09E+04	-8.52E+05	8.33E+05		
.10	-1.11E+04	-9.83E+04	7.21E+04	-9.73E+04	7.13E+04	-8.62E+05	8.24E+05		
.20	-1.23E+04	-1.91E+05	1.50E+05	-1.89E+05	1.49E+05	-8.83E+05	8.06E+05		
.40	-1.73E+04	-3.93E+05	2.96E+05	-3.88E+05	2.93E+05	-9.26E+05	7.77E+05		
.80	-3.73E+04	-8.64E+05	5.74E+05	-8.50E+05	5.67E+05	-1.02E+06	7.55E+05		

Table K–478. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (LAMP-4, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

LAMP-4									
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} M_{m{y}}^{ ext{rad}}$	Filtered $oldsymbol{M_y^{ ext{rad}}}$		Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$			
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)		
.05	-1.52E+04	-7.95E+04	4.47E+04	-7.81E+04	4.19E+04	-1.26E+06	1.14E+06		
.10	-2.33E+04	-1.31E+05	7.12E+04	-1.29E+05	5.45E+04	-1.06E+06	7.79E+05		
.20	-4.31E+04	-2.40E+05	1.31E+05	-2.35E+05	1.07E+05	-9.59E+05	7.52E+05		
.40	-7.99E+04	-4.31E+05	4.16E+05	-4.22E+05	2.61E+05	-8.55E+05	8.53E+05		
.80	-1.23E+05	-8.27E+05	1.33E+06	-8.12E+05	9.63E+05	-8.61E+05	1.36E+06		

Table K–479. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NFA, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

NFA									
	$\langle M_{m{y}}^{ ext{rad}} angle$	Unfiltere	$\mathbf{d} \; M_{m{y}}^{ ext{rad}}$	Filtered $M_y^{ m rad}$		Filtered $ig(M_{m{y}}^{ m rad}ig)^*$			
(z_a/T)	Mean (kN-m)	Min. (kN-m)	Max. (kN-m)	Min.	Max. (kN-m)	Min. (kN-m)	Max. (kN-m)		
.05	(KI (-III)	(KI (-III)	(KI (-III)	(K1 (-III)	(KI (-III)	(Kr (-III)	(KI (-III)		
.10	_								
.20	_			_					
.40	_			_			_		
.80	_			<u> </u>			_		

Table K–480. Minimum and Maximum of Variables $M_y^{\rm rad}$ and $\left(M_y^{\rm rad}\right)^*=\left(M_y^{\rm rad}-\langle M_y^{\rm rad}\rangle\right)/(z_a/T)$ for the case (NSHIPMO, Task 1, Forced Heave Motion, Model 5613 Scaled to L = 154 m, $\omega=1.1000$ rad/s, $F_n=0.3$)

NSHIPMO									
	$\langle M_y^{ ext{rad}} angle \hspace{0.5cm} ext{Unfiltered} \hspace{0.5cm} M_y^{ ext{rad}}$		Filtered $oldsymbol{M_y^{ ext{rad}}}$		Filtered $\left(M_{m{y}}^{ ext{rad}} ight)^*$				
(z_a/T)	Mean	Min.	Max.	Min.	Max.	Min.	Max.		
	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)	(kN-m)		
.05	-1.82E+03	-6.15E+04	5.21E+04	-6.08E+04	5.17E+04	-1.18E+06	1.07E+06		
.10	-9.10E+03	-1.26E+05	9.92E+04	-1.24E+05	9.74E+04	-1.15E+06	1.06E+06		
.20	-1.41E+04	-2.48E+05	2.79E+05	-2.46E+05	2.62E+05	-1.16E+06	1.38E+06		
.40	-7.69E+04	-4.65E+05	6.33E+05	-4.55E+05	3.50E+05	-9.46E+05	1.07E+06		
.80	-7.02E+04	-8.57E+05	1.49E+06	-8.52E+05	8.49E+05	-9.77E+05	1.15E+06		